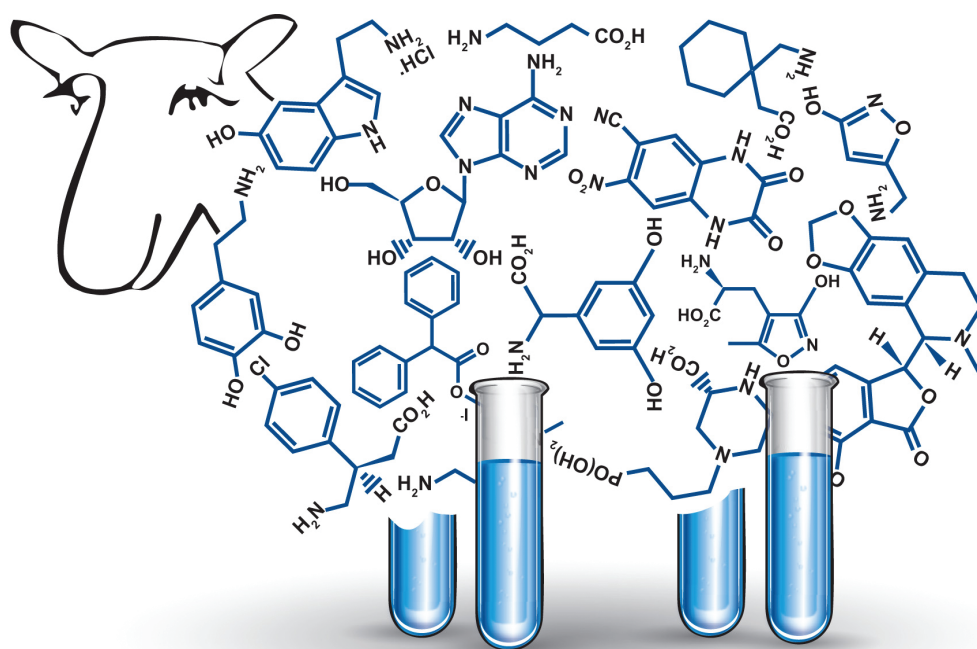


Catalog update

abcamBiochemicals®

High purity biochemical tools for life scientists

- Receptor agonists and antagonists
- Ion channel modulators
- Enzyme inhibitors
- Signaling tools



March 2012

Discover more at abcam.com/biochemicals

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Biochemical quality guarantee



High purity biochemicals

Abcam Biochemicals offers a range of the highest quality biochemical tools including agonists, antagonists, ion channel modulators, enzyme inhibitors and more.

Highest quality and purity









Our team has decades of synthetic chemistry experience - gained in diverse settings such as pharmaceutical labs, life science suppliers and academia. Our biochemicals are of very high purity, typically >98%. Chemical purity and quality are determined using a comprehensive range of techniques, including HPLC, chiral HPLC, NMR, microanalysis, optical rotation, TLC, and mass spectrometry. Details are provided on the Certificate of Authenticity that accompanies each product, and these are also available online.

Abcam Biochemicals are novel compounds and we have not tested their biological activity in house.








Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team.


High purity biochemicals

ADENOSINE & PURINERGICS: P1


Cat No.	Product	Pack Sizes			Purity	Description
ab120498	Adenosine 	1g	5g	25g	>99%	Endogenous P1 receptor agonist
ab120240	Caffeine  	1g	5g		>99%	PDE inhibitor. Adenosine antagonist
ab120453	CGS 21680 	10mg	50mg		>98%	Potent, selective A _{2A} agonist
ab120434	2-Chloro-N ⁶ -cyclopentyladenosine	10mg	50mg		>98%	Highly potent, selective A ₁ agonist
ab120037	2-Chloroadenosine 	10mg	50mg	250mg	>98%	Adenosine agonist
ab120442	8-(3-Chlorostyryl)caffeine	10mg	50mg		>98%	Selective A _{2A} receptor antagonist. MAO-B inhibitor.
ab120472	N ⁶ -Cyclohexyladenosine	50mg	250mg		>98%	Selective A ₁ receptor agonist
ab120398	N ⁶ -Cyclopentyladenosine	25mg	100mg		>99%	Potent, selective A ₁ agonist
ab120396	DPCPX	25mg	100mg		>99%	Potent A ₁ antagonist
ab120458	HENECA	1mg	10mg		>99%	Selective A _{2A} receptor agonist
ab120438	IB-MECA	5mg	25mg		>97%	Highly potent and selective A ₃ agonist
ab120397	MRS 1754	10mg	50mg		>98%	Selective A _{2B} antagonist
ab120440	NECA	10mg	50mg		>99%	Highly potent adenosine agonist
ab118162	NECA Fluorescent ligand (Red) 	50µg	100µg		>97%	Fluorescent non-selective adenosine agonist
ab120439	SCH-58261	10mg	50mg		>99%	Potent, highly selective A _{2A} antagonist
ab118163	XAC Fluorescent ligand-1 (Red) 	50µg	100µg		>97%	Fluorescent non-selective adenosine antagonist
ab118164	XAC Fluorescent ligand-2 (Red) 	50µg	100µg		>97%	Fluorescent A ₃ antagonist
ab120218	ZM 241385	10mg	50mg		>99%	Potent, selective A _{2A} antagonist

ADENOSINE & PURINERGICS: P2

Cat No.	Product	Pack Sizes				Purity	Description
ab120413	A 438079	10mg	50mg			>98%	Potent, competitive P2X ₇ receptor antagonist
ab120385	ATP disodium salt 	1g	5g	10g	25g	>99%	P2 receptor agonist. Signaling molecule.
ab120389	Brilliant Blue G 	100mg	1g			>90%	Potent, noncompetitive P2X ₇ antagonist
ab120387	(+/-)-Clopidogrel	10mg	50mg			>99%	Potent, selective P2Y ₁₂ antagonist
ab120395	GW791343 	10mg	50mg			>99%	P2X ₇ allosteric modulator
ab120421	KN-62	1mg	5mg			>98%	CaM kinase II inhibitor. P2X ₇ antagonist.
ab120414	MRS 2179 	10mg	50mg			>98%	Potent, selective P2Y ₁ antagonist
ab120445	MRS 2211  	10mg	50mg			>95%	Selective competitive P2Y ₁₃ antagonist
ab120454	NF023 	10mg	50mg			>97%	Competitive P2X ₁ receptor antagonist
ab120415	NF 449  	10mg	50mg			>95%	Highly selective, potent P2X ₁ receptor antagonist
ab120403	β-Nicotinamide adenine dinucleotide 	25mg	250mg	1g		>96%	Coenzyme and enzyme substrate. P2Y ₁₁ agonist.
ab120009	PPADS 	10mg	50mg	250mg			P2 purinergic receptor antagonist.
ab120422	Suramin hexasodium salt  	100mg	500mg			>99%	Non-selective P2 purinergic antagonist
ab120384	UDP-glucose 	100mg	1g			>98%	Highly potent P2Y ₁₄ agonist
ab120383	UDP sodium salt 	100mg	500mg			>98%	P2Y ₆ agonist. P2Y ₁₄ ligand.

 Country restrictions and/or license requirements may apply. Please contact customer services for further details.















































 Not currently for sale in the US

 Just-Add-Water: typically water-soluble to at least 10 mM or above.


 Products added since publication of the Autumn 2011 catalog.

High purity biochemicals

ADRENOCEPTORS

Cat No.	Product	Pack Sizes	Purity	Description
ab118167	Alprenolol Fluorescent ligand (Red) 	50µg 100µg	>97%	Fluorescent β_2 adrenoceptor antagonist
ab120576	Asenapine maleate 	10mg 50mg	>99%	Multiple receptor antagonist. Anti-psychotic agent.
ab120752	(RS)-Atenolol  	1g	>99%	β_1 adrenoceptor antagonist
ab120520	BMY 7378 dihydrochloride  	10mg 50mg	>99%	5-HT _{1A} partial agonist. α -adrenoceptor antagonist.
ab120534	Bupropion hydrochloride  	50mg 250mg 1g	>98%	Non-selective DAT/NET inhibitor
ab118171	(S)-Carazolol Fluorescent ligand (Red) 	50µg 100µg	>97%	Fluorescent β_2 antagonist/partial β_3 agonist
ab120729	(±)-Chlorpheniramine maleate  	100mg	>99%	Potent H ₁ antagonist and SNRI
ab120730	Chlorpromazine hydrochloride  	1g 5g	>99%	Typical antipsychotic. Non-selective receptor antagonist.
ab120753	Clonidine hydrochloride  	100mg	>99%	α_2 adrenoceptor agonist
ab120710	Isoprenaline hydrochloride  	100mg	>99%	Non selective β -adrenoceptor agonist
ab120769	Maprotiline hydrochloride  	100mg	>99%	Noradrenaline reuptake inhibitor
ab120711	Metoprolol tartrate  	50mg	>99%	β_1 -adrenergic receptor antagonist
ab120755	Milnacipran hydrochloride  	10mg 50mg	>99%	Serotonin and noradrenalin reuptake inhibitor
ab120068	Mirtazapine	10mg 50mg	>99%	Antidepressant. α_2 , 5HT ₂ , 5HT ₃ antagonist
ab120543	NAN-190 hydrobromide 	50mg 250mg	>99%	Potent 5-HT _{1A} antagonist
ab120587	Nefazodone hydrochloride 	10mg 50mg	>99%	Potent 5-HT _{2A} antagonist
ab120717	L-(-)-Norepinephrine-(+)-bitartrate  	1g 5g	>99%	Endogenous α adrenoceptor agonist
ab120736	Olanzapine 	10mg 50mg	>99%	Non-selective 5-HT, dopamine, histamine and muscarinic antagonist.
ab120712	Oxymetazoline hydrochloride  	100mg	>99%	α_{1A} and partial α_{2A} adrenoceptor agonist.
ab118168	Propranolol Fluorescent ligand (Red) 	50µg 100µg	>97%	Fluorescent β_2 adrenoceptor antagonist
ab118169	(S)-Propranolol Fluorescent ligand (Red) 	50µg 100µg	>97%	Fluorescent β_2 adrenoceptor antagonist
ab120521	Pindolol	250mg 1g	>99%	5-HT _{1A} and 5-HT _{1B} receptor antagonist
ab118170	Pindolol Fluorescent ligand (Red) 	50µg 100µg	>97%	Fluorescent β_2 antagonist
ab120238	Prazosin hydrochloride	50mg 250mg	>99%	α -adrenoceptor antagonist. Melatonin antagonist.
ab120757	Propranolol hydrochloride  	100mg	>98%	Potent β -adrenoceptor antagonist
ab120157	Reboxetine mesylate 	10mg 50mg	>99%	Noradrenaline reuptake inhibitor
ab120601	Rotigotine hydrochloride  	10mg 50mg	>99%	Dopamine receptor agonist
ab118165	Salbutamol Fluorescent ligand (Red) 	50µg 100µg	>97%	Fluorescent β_2 adrenoceptor agonist
ab120714	Salbutamol hemisulfate  	50mg 250mg	>99%	Non-selective β -adrenoceptor agonist
ab120529	Sibutramine hydrochloride 	10mg 50mg	>98%	Serotonin, noradrenaline & dopamine re-uptake inhibitor
ab120759	Xylazine hydrochloride  	1g	>99%	α_2 adrenergic receptor agonist
ab120239	Yohimbine hydrochloride  	1g 5g	>98%	Selective α_2 -adrenoceptor antagonist

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 Products added since publication of the Autumn 2011 catalog.

CANNABINOID

Cat No.	Product	Pack Sizes	Purity	Description
ab120251	ACEA	5mg 25mg	>98%	Potent, selective CB ₁ agonist
ab120096	ACEA (ethanol solution) ⓘ	5mg 25mg 100mg	>98%	Potent, selective CB ₁ agonist
ab120097	ACPA ⓘ	10mg 50mg	>98%	CB ₁ agonist
ab120088	AM251	1mg 10mg 50mg	>99%	CB ₁ receptor antagonist / inverse agonist
ab120095	AM404	10mg 50mg	>99%	Anandamide transport inhibitor
ab120404	AM630	10mg 50mg	>98%	CB ₂ antagonist / inverse agonist
ab120087	Anandamide ⓘ	5mg 25mg	>98%	Endogenous cannabinoid
ab120429	Anandamide (in water soluble emulsion) 🌊 ⓘ	10mg 50mg	>98%	Endogenous cannabinoid in water soluble emulsion
ab120446	Anandamide-d4 (ethanol solution) ⓘ	1mg 5mg	>98%	Internal standard for anandamide quantification
ab120098	2-Arachidonylglycerol (acetonitrile solution) ❄️	5mg 25mg	>95%	Endogenous cannabinoid agonist
ab120346	N-Arachidonylglycine	5mg 25mg 100mg	>98%	T-type Ca ²⁺ channel blocker. Endogenous GLYT2 inhibitor.
ab120449	(-)-Cannabidiol ⓘ	10mg 50mg	>98%	Common constituent of Cannabis
ab120344	Gp 1a	10mg 50mg	>99%	Highly potent and selective CB ₂ agonist
ab120361	(R)-(+)-Methanandamide (ethanol solution) ⓘ	5mg 25mg	>98%	Stable anandamide analogue. CB ₁ receptor agonist.
ab120099	NADA ⓘ	5mg 25mg	>98%	Endogenous CB ₁ / TRPV1 agonist
ab120407	O-1602 ▲	10mg 50mg	>98%	Potent, selective GPR55 agonist
ab120405	O-1918 ▲	10mg 50mg	>97%	Antagonist of the non-CB ₁ vascular cannabinoid receptor
ab120342	Org 27569	10mg 50mg	>99%	Potent CB ₁ receptor allosteric modulator
ab120345	Palmitoylethanolamide	10mg 50mg	>99%	Potent, selective GPR55 agonist
ab120431	Water soluble emulsion (blank) 🌊	1ml 10ml		Water soluble emulsion. Negative control.

CHEMOKINE

Cat No.	Product	Pack Sizes	Purity	Description
ab120718	AMD3100 octahydrochloride NEW! 🌊	10mg	>99%	Highly selective CXCR ₄ antagonist
ab120643	Tranilast NEW!	10mg 50mg	>99%	Anti-inflammatory agent

DOPAMINE

Cat No.	Product	Pack Sizes	Purity	Description
ab120581	A-412997 dihydrochloride NEW!	10mg 50mg	>98%	Highly selective D ₄ agonist
ab120150	6,7-ADTN hydrobromide 🌊	10mg 50mg	>99%	Dopamine agonist
ab120576	Asenapine maleate NEW!	10mg 50mg	>99%	Multiple receptor antagonist. Anti-psychotic agent.
ab120574	Bromocriptine mesylate NEW!	100mg 500mg	>99%	Potent, selective D ₂ -like dopamine receptor agonist
ab120534	Bupropion hydrochloride NEW! 🌊	50mg 250mg 1g	>98%	Non-selective DAT/NET inhibitor
ab120564	Cabergoline NEW!	10mg 50mg	>99%	D ₂ -like receptor agonist
ab120730	Chlorpromazine hydrochloride NEW! 🌊	1g 5g	>99%	Typical antipsychotic. Non-selective receptor antagonist.
ab120019	Clozapine	50mg 500mg	>98%	Atypical antipsychotic
ab120732	Cyproheptadine hydrochloride NEW! 🌊	50mg 100mg	>99%	Potent H ₁ and 5-HT _{2B} antagonist. Non-selective receptor antagonist.
ab120604	(R)-(-)-Deprenyl hydrochloride NEW! 🌊	250mg 1g	>99%	MAO-B selective inhibitor
ab120026	N-Desmethyl clozapine	10mg 50mg	>99%	Clozapine metabolite. M ₁ agonist. D ₂ /D ₃ agonist.

ⓘ Country restrictions and/or license requirements may apply. Please contact customer services for further details.

❄️ This product is shipped on ice. It may not be suitable for delivery to territories outside of the USA and Europe. Please contact customer service for details.

🌊 Just-Add-Water: typically water-soluble to at least 10 mM or above. ▲ Sold under license from Virginia Commonwealth University.

NEW! Products added since publication of the Autumn 2011 catalog.

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DOPAMINE continued

Cat No.	Product	Pack Sizes	Purity	Description
ab120566	Domperidone	50mg 500mg	>99%	Peripheral D ₂ -like receptor antagonist
ab120565	Dopamine hydrochloride	1g 5g	>99%	Endogenous neurotransmitter
ab120602	Eticlopride hydrochloride	10mg 50mg	>99%	Selective D ₂ -like receptor antagonist
ab120331	FFN511	1mg 5mg	>99%	Fluorescent false neurotransmitter; highly efficient optical tracer of dopamine
ab120613	Flupenthixol dihydrochloride	50mg	>99%	Non-selective dopamine receptor antagonist
ab120607	GBR 12909 dihydrochloride	10mg 50mg	>99%	Selective dopamine transport inhibitor
ab120080	Haloperidol	100mg	>99%	D ₂ antagonist
ab120573	L-DOPA	5g 25g 100g	>99%	Dopamine precursor
ab120596	L-741626	10mg 50mg	>98%	Potent and selective D ₂ antagonist
ab120598	L-745870 trihydrochloride	10mg 50mg	>99%	Highly potent, selective brain penetrant D ₄ antagonist
ab120736	Olanzapine	10mg 50mg	>99%	Non-selective 5-HT, dopamine, histamine and muscarinic antagonist.
ab120569	Pramipexole dihydrochloride	10mg 50mg	>99%	Dopamine D ₂ -like receptor agonist. D ₃ -preferring.
ab120737	Quetiapine hemifumarate	10mg 50mg	>99%	D ₂ and 5-HT ₂ antagonist. Antipsychotic.
ab120563	(S)-(-)-Raclopride	10mg 50mg	>99%	D ₂ receptor antagonist
ab120609	Reserpine	250mg 1g	>98%	Irreversible vesicular monoamine transporter (VMAT2) antagonist
ab120393	Risperidone	10mg 50mg	>99%	Atypical antipsychotic. 5HT _{2A} / D ₂ antagonist.
ab120575	Ropinirole hydrochloride	10mg 50mg	>99%	Selective D ₂ -like receptor agonist
ab120601	Rotigotine hydrochloride	10mg 50mg	>99%	Dopamine receptor agonist
ab120603	Salsolinol hydrochloride	100mg	>99%	Endogenously synthesised dopamine derivative
ab120567	SB-277011-A dihydrochloride	5mg 25mg	>98%	Potent, highly selective D ₃ antagonist
ab120740	(±)-SKF38393 hydrochloride	100mg	>99%	D ₁ -like dopamine receptor agonist
ab118172	SKF83566 Fluorescent ligand (Red)	100µg	>97%	Fluorescent D ₁ antagonist
ab120549	Sipiperone hydrochloride	50mg 250mg	>99%	5HT and D ₂ -like receptor antagonist
ab120578	(R,S)-Sulpiride	100mg	>99%	D ₂ -like dopamine receptor antagonist
ab120579	(S)-Sulpiride	100mg 1g	>99%	D ₂ -like dopamine antagonist. Active enantiomer.
ab120580	Thioridazine hydrochloride	100mg 500mg	>99%	Dopamine receptor antagonist
ab120739	Trifluoperazine dihydrochloride	1g	>99%	Cell permeable calmodulin agonist
ab120570	U 99194 maleate	10mg 50mg	>99%	Potent, selective D ₃ antagonist
ab120394	Ziprasidone	10mg 50mg	>99%	Atypical antipsychotic. 5HT _{2A} / D ₂ antagonist.

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Just-Add-Water: typically water-soluble to at least 10 mM or above.

Products added since publication of the Autumn 2011 catalog.

ENZYMES: ATPase & GTPase

Cat No.	Product	Pack Sizes	Purity	Description
ab120497	Bafilomycin A1	10µg 100µg	>98%	Highly potent, selective (V)-ATPase inhibitor
ab120616	2,3-Butanedione 2-monoxime NEW!	500mg		Non-selective myosin ATPase inhibitor
ab120300	Cyclopiazonic acid from <i>Penicillium griseofulvum</i> ⓘ	10mg 50mg	>99%	Ca ²⁺ -ATPase inhibitor
ab120474	Dynamin Inhibitors: Dynole™ Series Kit ▲	1kit		Dynamin inhibitor kit from the Dynole™ series
ab120473	Dynamin Inhibitors: MiTMAB™ Series Kit ▲	1kit		Dynamin inhibitor kit from the MiTMAB™ series
ab120475	Dynamin Inhibitors: Iminodyn™ Series Kit ▲	1kit		Dynamin inhibitor kit from the Iminodyn™ series
ab120468	Dynamin Inhibitors Toolbox ▲	1kit		Dynamin inhibitor kit from the MiTMAB™, Dynole™ and Iminodyn™ chemical series.
ab120192	Dynasore	10mg 50mg	>99%	Cell permeable dynamin inhibitor
ab120689	Dyngo-4a™ NEW!	5mg		Novel, highly potent dynamin inhibitor. Dynasore analogue.
ab120464	Dynole-31-2™ ▲	5mg	>98%	Negative control for Dynole 34-2™
ab120463	Dynole-34-2™ ▲ ⓘ	5mg	>98%	Potent dynamin I and dynamin II inhibitor
ab120500	Esomeprazole sodium 🍃	50mg 250mg	>99%	H ⁺ /K ⁺ -ATPase (proton pump) inhibitor
ab120462	Iminodyn-17™ ▲	5mg	>98%	Negative control for Iminodyn-22™
ab120461	Iminodyn-22™ ▲	5mg	>98%	Potent, broad spectrum dynamin inhibitor
ab120466	MiTMAB™ 🍃 ▲	5mg		Cell permeable dynamin I and dynamin II inhibitor
ab120494	Nigericin Na ⁺ salt NEW! ⓘ	10mg 50mg	>98%	K ⁺ ionophore
ab120467	OcTMAB™ ▲	5mg	>98%	Cell permeable dynamin I and dynamin II inhibitor
ab120476	Pro-Myristic Acid ▲	5mg		Negative control for MiTMAB™ and OcTMAB™
ab120465	RTIL-13™ ▲	5mg	>98%	Potent dynamin I and II inhibitor
ab120386	Sodium orthovanadate (for Decavanadate solution) 🍃	1g 5g		Broad spectrum inhibitor of tyrosine phosphatases
ab120286	Thapsigargin	1mg	>98%	Ca ²⁺ -ATPase inhibitor

ENZYMES: CASPASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120488	Z-D(OMe)E(OMe)VD(OMe)-FMK	1mg 5mg	>90%	Cell permeable caspase-3 inhibitor
ab120489	Z-LE(OMe)VD(OMe)-FMK	1mg 5mg	>90%	Cell permeable derivative of caspase-4 inhibitor Z-LEVD-FMK
ab120487	Z-VAD(OMe)-FMK	1mg 5mg	>90%	Cell permeable, irreversible pan-caspase inhibitor
ab120382	Z-VAD-FMK	1mg 5mg	>98%	Irreversible general caspase inhibitor

ENZYMES: CYCLASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120058	Forskolin	10mg 50mg 100mg	>98%	Adenylyl cyclase activator
ab120190	NKH 477 🍃	10mg 50mg	>98%	Water-soluble analogue of forskolin, an adenylyl cyclase activator
ab120022	ODQ	10mg 50mg	>99%	Selective, potent inhibitor of NO-sensitive guanylyl cyclase

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NEW! Products added since publication of the Autumn 2011 catalog.

High purity biochemicals

ENZYMES: CYCLOOXYGENASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120621	Diclofenac Sodium NEW!	1g	>99%	Potent cyclo-oxygenase inhibitor
ab120716	(-)-Epigallocatechin Gallate NEW! NEW!	1mg	>98%	Potent anti-oxidant flavonoid
ab120719	Indomethacin NEW!	100mg	>99%	Non-selective COX inhibitor
ab120662	Luteolin NEW!	10mg 50mg	>99%	Antioxidant, anti-inflammatory, anti-cancer flavonoid
ab120295	NS 398	10mg 50mg	>98%	COX-2 inhibitor
ab120746	Sodium salicylate NEW! NEW!	5g	>99%	Cell permeable anti-inflammatory agent
ab120650	Sulindac sulfide NEW!	5mg 25mg	>98%	Active metabolite of Sulindac. COX-1/ 2 inhibitor.

ENZYMES: CYTOCHROME P450

Cat No.	Product	Pack Sizes	Purity	Description
ab120620	Ketoconazole NEW!	100mg	>99%	Potent cytochrome P450 inhibitor. Anti-fungal agent.

ENZYMES: DEACETYLASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120745	Valproic acid, sodium salt NEW! NEW!	100mg		Histone deacetylase inhibitor

ENZYMES: DEHYDROGENASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120664	Mycophenolic Acid NEW!	100mg	>99%	Immunosuppressant. Inosine monophosphate dehydrogenase inhibitor.

ENZYMES: DEMETHYLASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120606	Tranylcypromine hydrochloride NEW!	50mg	>98%	Irreversible monoamine oxidase (MAO) inhibitor

ENZYMES: HMG-COA REDUCTASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120651	Fluvastatin, Sodium Salt NEW! NEW!	50mg	>99%	Competitive HMG-CoA reductase inhibitor
ab120614	Lovastatin NEW!	10mg 50mg	>98%	Potent HMG CoA reductase inhibitor
ab120505	Simvastatin	50mg 250mg	>99%	HMG-CoA reductase inhibitor

ENZYMES: ISOMERASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120115	Camptothecin ⓘ	50mg 250mg	>98%	DNA topoisomerase inhibitor
ab120629	Doxorubicin hydrochloride NEW! NEW!	10mg 50mg	>98%	Topoisomerase II inhibitor. Antibiotic with cytotoxic actions.
ab120227	Etoposide	25mg 100mg	>98%	Topoisomerase II inhibitor
ab120388	Topotecan hydrochloride	10mg 50mg	>98%	Topoisomerase inhibitor

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NEW! Products added since publication of the Autumn 2011 catalog.

ENZYMES: KINASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120335	A 769662 ⓘ	10mg 50mg	>99%	AMP-activated protein kinase activator
ab120493	Adenosine 3',5'-cyclic monophosphate 🌊	1g 5g 25g	>98%	Second messenger. PKA activator.
ab120358	AICAR 🌊	50mg 250mg	>98%	Cell-permeable activator of AMP-activated protein kinase
ab120495	Anisomycin ⓘ	10mg 50mg	>98%	Protein synthesis inhibitor
ab120365	CGP 57380	1mg 10mg 50mg	>98%	MNK inhibitor
ab120424	8-(4-Chlorophenylthio)adenosine 3',5'-cyclic monophosphate 🌊	20mg 100mg	>98%	Cell permeable cAMP analogue, protein kinase modulator
ab120220	D4476	10mg 50mg	>99%	CK1 inhibitor
ab120716	(-)-Epigallocatechin Gallate NEW! 🌊	1mg	>98%	Potent anti-oxidant flavonoid
ab120112	Genistein	10mg 50mg 100mg	>99%	Protein tyrosine kinase inhibitor. Anticancer agent.
ab120341	H89 dihydrochloride	1mg 10mg 50mg	>98%	Kinase inhibitor
ab120306	HA-1077 🌊	10mg 50mg	>98%	ROCK2 inhibitor
ab120225	Harmine ⓘ	100mg	>98%	Potent and selective inhibitor of DYRK1A
ab120452	Iodotubercidin	1mg 5mg	>95%	Potent, adenosine kinase inhibitor
ab120419	K252a	200µg 1mg	>99%	Highly potent inhibitor of protein and CAM kinases
ab120421	KN-62	1mg 5mg	>98%	CaM kinase II inhibitor. P2X ₇ antagonist.
ab120423	KT5823	100µg	>95%	Potent, selective inhibitor of PKG
ab120662	Luteoline NEW!	10mg 50mg	>99%	Antioxidant, anti-inflammatory, anti-cancer flavonoid
ab120243	LY 294002	5mg 25mg	>99%	PI-3 kinase inhibitor
ab120653	2-Methoxyestradiol NEW!	10mg 50mg	>98%	Potent antitumor and antiangiogenic agent
ab120234	PD 98059	1mg 10mg 50mg	>99%	MEK1 inhibitor
ab120297	Phorbol 12-myristate 13-acetate	1mg 5mg 25mg	>99%	PKC activator
ab120079	Phospho-Glycogen Synthase Peptide-2 🌊	500µg 1mg	>99%	GSK substrate
ab120722	Piceatannol NEW!	10mg 50mg	>99%	Syk tyrosine kinase inhibitor
ab120308	PP2 NEW!	1mg 5mg 10mg	>98%	Src and RIP2 kinase inhibitor
ab120617	PP3 NEW!	10mg	>98%	Negative control for the Src kinase inhibitor PP2.
ab120304	Purvalanol A	1mg 10mg 50mg	>98%	Potent CDK inhibitor
ab120305	Purvalanol B	10mg 50mg	>98%	CDK2 inhibitor
ab120374	Ro 31-8220 mesylate	1mg 10mg 50mg	>98%	Protein kinase inhibitor
ab120377	Rottlerin	10mg 50mg	>95%	Kinase inhibitor
ab120182	SAMS peptide 🌊	1mg 5mg	>95%	AMP-activated protein kinase substrate
ab120638	SB 202190 NEW!	10mg 50mg	>99%	Highly selective, potent, cell permeable p38 MAP kinase inhibitor
ab120162	SB 203580	1mg 10mg 50mg	>99%	p38 MAP kinase inhibitor
ab120235	SB 203580 hydrochloride 🌊	10mg	>99%	p38 MAP kinase inhibitor; water soluble
ab120202	SB 216763	1mg 10mg 50mg	>98%	Potent selective GSK-3 inhibitor
ab120163	SB431542	1mg 5mg 10mg	>99%	ALK inhibitor
ab120082	SL 327	1mg 10mg 25mg	>99%	MEK inhibitor






ⓘ Country restrictions and/or license requirements may apply. Please contact customer services for further details.

🌊 Just-Add-Water: typically water-soluble to at least 10 mM or above.

NEW! Products added since publication of the Autumn 2011 catalog.

High purity biochemicals







ENZYMES: KINASE continued

Cat No.	Product	Pack Sizes	Purity	Description
ab120746	Sodium salicylate  	5g	>99%	Cell permeable anti-inflammatory agent
ab120065	SP600125	10mg 50mg	>98%	JNK inhibitor
ab120056	Staurosporine	100µg 500µg	>98%	Protein kinase inhibitor
ab120650	Sulindac sulfide 	5mg 25mg	>98%	Active metabolite of Sulindac. COX-1/ 2 inhibitor.
ab120289	TMCB	10mg 50mg	>98%	Selective CK2 inhibitor
ab120241	U0126	5mg 25mg	>98%	Selective MKK inhibitor
ab120148	Wortmannin 	1mg 5mg	>98%	PI3-kinase inhibitor
ab120129	Y-27632 dihydrochloride 	1mg 10mg 50mg	>99%	Selective Rho kinase inhibitor
ab120428	ZM 336372	1mg 10mg 50mg	>98%	Potent, selective c-Raf inhibitor



ENZYMES: MATRIX METALLOPROTEASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120661	Minocycline hydrochloride  	50mg	>99%	Antibiotic. Demonstrates multiple effects.


ENZYMES: OXIDASES

Cat No.	Product	Pack Sizes	Purity	Description
ab120615	Apocynin 	1g	>99%	Selective NADPH-oxidase inhibitor
ab120442	8-(3-Chlorostyryl)caffeine	10mg 50mg	>98%	Selective A _{2A} receptor antagonist. MAO-B inhibitor.
ab120604	(R)-(-)-Deprenyl hydrochloride  	250mg 1g	>99%	MAO-B selective inhibitor
ab120605	Harmaline 	100mg	>99%	β-Carboline. Imidazoline ligand. MAO inhibitor.
ab120236	Rasagiline mesylate 	10mg 50mg	>99%	MAO-B inhibitor
ab120606	Tranylcypromine hydrochloride 	50mg	>98%	Irreversible monoamine oxidase (MAO) inhibitor


ENZYMES: OXYGENASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120723	Baicalein 	50mg	>98%	Flavonoid. Lipoxigenase inhibitor.
ab120618	Curcumin 	50mg 250mg	>85%	Flavonoid. Lipooxygenase inhibitor. Anti-oxidant, anti-inflammatory agent.
ab120645	Edaravone 	50mg 250mg	>99%	Free radical scavenger with neuroprotective effects

ENZYMES: PHOSPHATASE



Cat No.	Product	Pack Sizes	Purity	Description
ab120114	Cyclosporin A	25mg 100mg 500mg	>99%	PP2B inhibitor
ab120375	Okadaic acid	25µg 100µg	>98%	PP1 and PP2A inhibitor
ab120386	Sodium orthovanadate (for Decavanadate solution) 	1g 5g		Broad spectrum inhibitor of tyrosine phosphatases

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 Products added since publication of the Autumn 2011 catalog.


ENZYMES: PHOSPHODIESTERASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120240	Caffeine 	1g 5g	>99%	PDE inhibitor. Adenosine antagonist
ab120451	Dipyridamole	1g 5g 10g	>99%	Non selective phosphodiesterase (PDE) inhibitor
ab120725	Pentoxifylline 	1g 5g	>99%	Phosphodiesterase inhibitor. Cytokine inhibitor.
ab120031	(R)-(-)-Rolipram	10mg 50mg	>98%	Selective PDE4 inhibitor
ab120029	(R,S)-Rolipram	10mg 50mg	>99%	Selective PDE4 inhibitor
ab120030	(S)-(+)-Rolipram	10mg 50mg	>99%	PDE4 inhibitor; less active enantiomer



ENZYMES: PHOSPHOLIPASE & LIPASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120350	AACOCF3	5mg 25mg	>98%	Phospholipase-A ₂ inhibitor
ab120749	Quinacrine dihydrochloride 	100mg	>98%	Non-selective phospholipase A ₂ inhibitor






ENZYMES: POLYMERASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120631	Acyclovir 	50mg 100mg	>99%	Inhibits viral DNA polymerase. Antitherpetic agent
ab120368	DR2313	1mg 10mg 50mg	>99%	Potent, brain-penetrant and water-soluble PARP inhibitor

ENZYMES: SECRETASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120633	DAPT 	10mg 50mg	>99%	γ-secretase inhibitor
ab120650	Sulindac sulfide 	5mg 25mg	>98%	Active metabolite of Sulindac. COX-1/ 2 inhibitor.


ENZYMES: SYNTHETASE & SYNTHASE


Cat No.	Product	Pack Sizes	Purity	Description
ab120123	Aminoguanidine hydrochloride 	100mg	>98%	NOS inhibitor
ab120137	N ^G -Monomethyl-L-arginine, monoacetate salt 	10mg 50mg	>99%	NOS inhibitor
ab120233	7-Nitroindazole	50mg	>98%	NOS inhibitor
ab120136	N ^ω -Nitro-L-arginine Methyl Ester hydrochloride 	100mg	>98%	NOS inhibitor
ab120057	Spermidine hydrochloride 	100mg	>99%	Endogenous polyamine. nNOS inhibitor.
ab120165	1400W 	10mg 50mg	>99%	Selective iNOS inhibitor


ENZYMES: TRANSAMINASE


Cat No.	Product	Pack Sizes	Purity	Description
ab120310	Vigabatrin 	10mg 50mg	>98%	Irreversible inhibitor of GABA transaminase

ENZYMES: TRANSFERASE

Cat No.	Product	Pack Sizes	Purity	Description
ab120296	Tunicamycin from Streptomyces sp 	10mg 50mg	>99%	Antibiotic. Protein glycosylation inhibitor

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 Products added since publication of the Autumn 2011 catalog.

High purity biochemicals

ENZYME-LINKED RECEPTORS

Cat No.	Product	Pack Sizes	Purity	Description
ab120666	Cryptotanshinone NEW!	10mg 50mg	>99%	STAT3 inhibitor with diverse biological activities
ab120112	Genistein	10mg 50mg 100mg	>99%	Protein tyrosine kinase inhibitor. Anticancer agent.
ab120662	Luteolin NEW!	10mg 50mg	>99%	Antioxidant, anti-inflammatory, anti-cancer flavonoid
ab120657	17 β -Estradiol NEW!	100mg 1g	>99%	Selective agonist of ER receptor

G PROTEIN-COUPLED ESTROGEN

Cat No.	Product	Pack Sizes	Purity	Description
ab120657	17 β -Estradiol NEW!	100mg 1g	>99%	Selective agonist of ER receptor

GABA_A

Cat No.	Product	Pack Sizes	Purity	Description
ab120107	(+)-Bicuculline ⓘ	50mg	>98%	GABA _A antagonist
ab120108	(-)-Bicuculline methiodide NEW! ⓘ	10mg 50mg	>98%	GABA _A antagonist
ab120109	(-)-Bicuculline methobromide NEW! ⓘ	10mg 50mg	>98%	GABA _A antagonist
ab120110	(-)-Bicuculline methochloride NEW! ⓘ	10mg 50mg	>98%	GABA _A antagonist
ab120311	Etomidate	10mg 50mg	>98%	GABA _A agonist
ab120242	Flumazenil	10mg 50mg	>99%	Benzodiazepine antagonist
ab120314	Furosemide	1g 5g 10g	>99%	Inhibitor of the Na ⁺ /2Cl ⁻ /K ⁺ cotransporter. Also GABA _A antagonist.
ab120376	GABA and Glutamate Antagonists Kit NEW!	1kit		Economy kit of GABA and Glutamate antagonists
ab120094	Muscimol NEW! ⓘ	1mg 5mg 10mg 50mg	>99%	Potent, selective GABA _A agonist
ab120315	Picrotoxin ⓘ	1g 5g		GABA _A antagonist
ab120378	PK11195	10mg 50mg	>98%	Peripheral benzodiazepine receptor antagonist
ab120334	Propofol	1g	>98%	GABA _A agonist
ab120042	SR95531 NEW!	10mg 50mg	>98%	GABA _A antagonist
ab120101	U 93631	10mg 50mg	>99%	GABA _A antagonist
ab120076	Zopiclone ⓘ	10mg 50mg	>98%	Benzodiazepine agonist




GABA: GABA_B

Cat No.	Product	Pack Sizes	Purity	Description
ab120329	3-APPA NEW!	10mg 50mg	>98%	Potent, selective GABA _B agonist
ab120325	(R)-Baclofen NEW! ⓘ	10mg 50mg 250mg	>98%	Selective GABA _B agonist. Active enantiomer.
ab120149	(R,S)-Baclofen ⓘ	1g	>99%	GABA _B agonist
ab120167	CGP 35348 NEW!	10mg 50mg		GABA _B antagonist, brain penetrant
ab120330	CGP 52432 NEW!	10mg 50mg	>99%	Potent GABA _B antagonist
ab118173	CGP-54626A Fluorescent ligand (Red) NEW!	50 μ g 100 μ g	>97%	Fluorescent GABA _B antagonist
ab120337	CGP 55845 hydrochloride NEW!	10mg 50mg	>98%	Potent, selective GABA _B antagonist
ab120492	CGP 7930	10mg 50mg	>98%	Positive GABA _B receptor allosteric modulator
ab120376	GABA and Glutamate Antagonists Kit NEW!	1kit		Economy kit of GABA and Glutamate antagonists
ab120318	rac BHFF	10mg 50mg	>98%	Potent, selective GABA _B positive allosteric modulator
ab120327	Saclofen NEW!	10mg 50mg	>99%	GABA _B antagonist
ab120250	SKF 97541 NEW!	10mg 50mg	>98%	Highly potent GABA _B agonist


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NEW! Just-Add-Water: typically water-soluble to at least 10 mM or above. NEW! Products added since publication of the Autumn 2011 catalog.


GABA: NON-SELECTIVE

Cat No.	Product	Pack Sizes	Purity	Description
ab120359	GABA 	1g 5g		Inhibitory neurotransmitter
ab120376	GABA and Glutamate Antagonists Kit 	1kit		Economy kit of GABA and Glutamate antagonists
ab120409	RuBi-GABA 	10mg		Novel caged-GABA compound, uncaged by visible light











GABA: OTHER


Cat No.	Product	Pack Sizes	Purity	Description
ab120310	Vigabatrin 	10mg 50mg	>98%	Irreversible inhibitor of GABA transaminase


GABA: TRANSPORTERS


Cat No.	Product	Pack Sizes	Purity	Description
ab120312	Nipecotic acid 	100mg 1g 5g	>98%	GABA reuptake inhibitor
ab120317	NNC 05-2090 	10mg 50mg	>99%	GABA uptake inhibitor
ab120364	NNC 711 	10mg 50mg	>99%	Potent, selective GAT-1 inhibitor
ab120326	SKF89976A hydrochloride 	10mg 50mg	>99%	Highly selective GAT-1 inhibitor
ab120237	Tiagabine hydrochloride 	10mg 50mg	>99%	Selective GAT-1 inhibitor

GLUTAMATE: AMPA & KAINATE

Cat No.	Product	Pack Sizes	Purity	Description
ab120130	(R,S)-AMPA 	10mg 50mg	>99%	AMPA agonist
ab120005	(S)-AMPA 	5mg 10mg 50mg	>98%	AMPA agonist
ab120316	Aniracetam	50mg 250mg	>99%	AMPA receptor potentiator
ab120062	(S)-5-Chlorowillardiine	10mg 50mg	>98%	AMPA / kainate agonist
ab120017	CNQX	10mg 25mg 50mg	>99%	AMPA / kainate antagonist
ab120044	CNQX disodium salt 	1mg 10mg 50mg	>99%	AMPA / kainate antagonist (water soluble)
ab120061	Cyclothiazide	10mg 50mg	>98%	AMPA receptor desensitisation inhibitor
ab120307	γ -DGG 	50mg	>99%	Ionotropic glutamate antagonist. Low affinity AMPA antagonist.
ab120018	DNQX	10mg 50mg	>99%	AMPA / kainate antagonist
ab120169	DNQX disodium salt 	10mg 50mg	>99%	AMPA / kainate antagonist (water soluble)
ab120338	Domoic acid 	1mg 5mg	>98%	Kainate agonist. Neurotoxin.
ab120036	(S)-5-Fluorowillardiine 	10mg 50mg	>99%	Potent, selective AMPA agonist
ab120399	(S)-5-Fluorowillardiine hydrochloride 		>99%	Potent, selective AMPA agonist. Only available in: Ionotropic agonists: Kit.
ab120336	GYKI 52466 	10mg 50mg	>99%	Selective non-competitive AMPA antagonist
ab120490	GYKI 53655 hydrochloride 	10mg 50mg	>99%	Non-competitive AMPA / kainate receptor antagonist
ab120222	(S)-5-Iodowillardiine	10mg 50mg	>98%	GluK1 kainate agonist
ab120401	(S)-5-Iodowillardiine hydrochloride		>98%	GluK1 kainate agonist. More water-soluble than (S)-5-Iodowillardiine. Only available in: agonists: Kit.
ab120323	Ionotropic Agonists Kit	1kit		Economy kit of agonists, antagonists and potentiators at AMPA, Kainate and NMDA receptors.






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 Products added since publication of the Autumn 2011 catalog.

High purity biochemicals

GLUTAMATE: AMPA & KAINATE continued

Cat No.	Product	Pack Sizes	Purity	Description
ab120100	Kainic acid 	1mg 10mg 50mg	>99%	Prototypic kainate receptor agonist
ab120045	NBQX	10mg 50mg	>98%	AMPA / kainate antagonist
ab120046	NBQX disodium salt 	1mg 10mg 50mg	>98%	AMPA / kainate antagonist; water soluble
ab120063	(S)-5-Nitrowillardiine	10mg 50mg	>98%	AMPA / kainate agonist
ab120433	Pep2m 	2mg	>95%	Inhibitor of AMPA receptor trafficking
ab120257	Philanthotoxin-7,4 	1mg 10mg 50mg	>98%	GluA1/GluA2 (formerly GluR1/2) inhibitor
ab120010	Quisqualic acid 	5mg 10mg 50mg	>99%	Group I mGlu agonist. AMPA agonist.
ab120194	UBP304	10mg	>98%	Potent, selective GluK1 (formerly GLUK5) receptor antagonist
ab120195	UBP308	10mg	>98%	Inactive isomer of the GluK1 (formerly GLUK5) receptor antagonist UBP304
ab120168	UBP310	10mg 50mg	>98%	GluK1 and GluK3 selective antagonist
ab120040	(S)-Willardiine	10mg 50mg	>98%	AMPA / kainate receptor agonist




GLUTAMATE: BROAD SPECTRUM / NON SELECTIVE

Cat No.	Product	Pack Sizes	Purity	Description
ab120001	DL-AP4	100mg 1g	>99%	Broad spectrum glutamate antagonist
ab120253	DL-AP4 sodium salt 	100mg 1g	>99%	Broad spectrum glutamate antagonist; water soluble
ab120307	γ -DGG 	50mg	>99%	Ionotropic glutamate antagonist. Low affinity AMPA antagonist.
ab120049	L-Glutamate 	1g 2.5g	>99%	Excitatory neurotransmitter
ab120041	Ibotenic acid  	1mg 5mg 25mg	>98%	Excitotoxic agonist
ab120064	Kynurenic acid	1g	>99%	Endogenous ionotropic / nicotinic antagonist
ab120256	Kynurenic acid sodium salt 	1g 5g	>99%	Endogenous ionotropic / nicotinic antagonist; water soluble
ab120038	2,3 <i>cis</i> -Piperidine dicarboxylic acid 	50mg 250mg	>98%	Ionotropic receptor antagonist
ab120408	RuBi-Glutamate  	10mg		Novel caged-glutamate compound, uncaged by visible light

GLUTAMATE: mGlu: General


Cat No.	Product	Pack Sizes	Purity	Description
ab120321	mGlu Agonists Kit 	1kit		Economy kit of mGlu agonists
ab120322	mGlu Antagonists Kit	1kit		Economy kit of mGlu antagonists

GLUTAMATE: mGlu: Group I

Cat No.	Product	Pack Sizes	Purity	Description
ab120363	CDPPB 	10mg 50mg	>98%	PAM for mGlu ₅ . Active <i>in vivo</i> .
ab120039	(R,S)-CHPG	10mg 50mg	>98%	Selective mGlu ₅ agonist
ab120221	(R,S)-CHPG sodium salt 	10mg 50mg	>99%	mGlu ₅ agonist; water soluble
ab120060	CPCCOEt	10mg 50mg	>98%	Selective, non-competitive mGlu ₁ antagonist
ab120016	Desmethyl YM298198 hydrochloride	10mg 50mg	>99%	Analogue of mGlu ₁ antagonist YM298198
ab120020	(R,S)-3,5-DHPG 	1mg 10mg 50mg	>98%	Group I mGlu receptor agonist
ab120007	(S)-3,5-DHPG 	5mg 10mg	>99%	Selective group I mGlu agonist

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 Just-Add-Water: typically water-soluble to at least 10 mM or above.

 Products added since publication of the Autumn 2011 catalog.

GLUTAMATE: mGlu: Group I continued

Cat No.	Product	Pack Sizes	Purity	Description
ab120034	Fenobam	10mg 50mg	>99%	Selective, potent, orally active mGlu ₅ antagonist
ab120067	LY 367385 ▲	10mg 50mg	>99%	mGlu _{1a} antagonist
ab120418	LY 367385 sodium salt 🌊 ▲		>99%	mGlu _{1a} antagonist. Only available in: mGlu antagonists: Kit
ab120201	LY 456236	10mg 50mg	>99%	mGlu ₁ non competitive antagonist
ab120321	mGlu Agonists Kit 🌊	1kit		Economy kit of mGlu agonists
ab120322	mGlu Antagonists Kit	1kit		Economy kit of mGlu antagonists
ab120008	MPEP hydrochloride 🌊	10mg 50mg	>99%	Potent, selective mGlu ₅ antagonist
ab120035	MTEP hydrochloride 🌊	10mg 50mg	>99%	Potent, selective mGlu ₅ antagonist
ab120043	PHCCC	10mg 50mg	>98%	Selective allosteric potentiator at mGlu ₄ . Also group I antagonist.
ab120010	Quisqualic acid 🌊	5mg 10mg 50mg	>99%	Group I mGlu agonist. AMPA agonist.
ab120293	YM 202074	10mg 50mg	>98%	mGlu ₁ antagonist
ab120015	YM298198 hydrochloride 🌊	10mg 50mg	>99%	Potent, selective mGlu ₁ antagonist

GLUTAMATE: mGlu: Group I & II

Cat No.	Product	Pack Sizes	Purity	Description
ab120033	(R,S)-MCPG	10mg 50mg	>99%	Group I /II metabotropic glutamate antagonist
ab120059	(S)-MCPG 🌊	10mg 50mg	>98%	Group I / II mGlu antagonist
ab120252	(R,S)-MCPG sodium salt 🌊	10mg 50mg	>99%	Group I /II metabotropic glutamate antagonist; water soluble
ab120321	mGlu Agonists Kit 🌊	1kit		Economy kit of mGlu agonists
ab120322	mGlu Antagonists Kit	1kit		Economy kit of mGlu antagonists

GLUTAMATE: mGlu: Group II

Cat No.	Product	Pack Sizes	Purity	Description
ab120199	LY 341495 ▲	1mg 10mg 50mg	>98%	Potent, selective group II antagonist. Group III antagonist at higher concentrations.
ab120400	LY 341495 sodium salt 🌊 ▲	1mg 10mg 50mg	>98%	Water-soluble, potent, selective group II antagonist. Group III antagonist at higher concentrations.
ab120173	LY 354740	10mg 50mg	>98%	Group II mGlu agonist. Systemically active.
ab120196	LY 379268 🌊	10mg 50mg	>99%	Group II mGlu agonist. Systemically active.
ab120321	mGlu Agonists Kit 🌊	1kit		Economy kit of mGlu agonists
ab120322	mGlu Antagonists Kit	1kit		Economy kit of mGlu antagonists

GLUTAMATE: mGlu: Group III

Cat No.	Product	Pack Sizes	Purity	Description
ab120011	AMN082 dihydrochloride	10mg 50mg	>99%	mGlu ₇ agonist
ab120002	L-AP4	1mg 10mg 50mg	>99%	Selective group III mGlu agonist
ab120506	Cinnabarinic acid NEW!	10mg 50mg	>98%	Endogenous mGlu ₄ selective agonist
ab120006	(S)-3,4-DCPG 🌊	10mg 50mg	>99%	mGlu _{8a} agonist
ab120199	LY 341495 ▲	1mg 10mg 50mg	>98%	Potent, selective group II antagonist. Group III antagonist at higher concentrations.

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GLUTAMATE: mGlu: Group III continued

Cat No.	Product	Pack Sizes	Purity	Description
ab120400	LY 341495 sodium salt  	1mg 10mg 50mg	>98%	Water-soluble, potent, selective group II antagonist. Group III antagonist at higher concentrations.
ab120321	mGlu Agonists Kit 	1kit		Economy kit of mGlu agonists
ab120322	mGlu Antagonists Kit	1kit		Economy kit of mGlu antagonists
ab120245	MMPIP	1mg 10mg 50mg	>98%	mGlu ₇ allosteric antagonist
ab120043	PHCCC	10mg 50mg	>98%	Selective allosteric potentiator at mGlu ₄ . Also group I antagonist.
ab120244	VU0155041	10mg 50mg	>99%	PAM for mGluR ₄
ab120248	VU0155041 sodium salt 	10mg 50mg	>99%	PAM for mGluR ₄ (water soluble)

GLUTAMATE: NMDA: AP-2 binding site


Cat No.	Product	Pack Sizes	Purity	Description
ab120381	NGHVAEKLSSIE (Control Peptide) 	1mg	>94%	Control peptide for ab120380
ab120380	NGHVEKLSSIE (Interfering peptide) 	1mg	>95%	Competes with AP-2 binding to NR2B



GLUTAMATE: NMDA: Glutamate Site


Cat No.	Product	Pack Sizes	Purity	Description
ab120003	D-AP5 	1mg 10mg 50mg 100mg	>99%	NMDA glutamate site antagonist
ab120004	DL-AP5 	10mg 50mg	>99%	NMDA glutamate site antagonist
ab120271	DL-AP5 sodium salt 	10mg 50mg	>99%	NMDA glutamate site antagonist. Water soluble form.
ab120127	CGP 37849 	10mg 50mg	>99%	Competitive NMDA antagonist
ab120128	CGP 39551 	10mg 50mg	>99%	Competitive NMDA antagonist
ab120159	(R)-CPP 	10mg 50mg		Potent NMDA antagonist
ab120160	(R,S)-CPP	10mg 50mg	>98%	Potent NMDA antagonist
ab120232	(R)-CPPene 	10mg	>98%	Potent competitive NMDA antagonist
ab120052	NMDA 	50mg 100mg 500mg	>98%	Excitotoxic amino acid
ab120047	cis-PPDA	10mg 50mg	>98%	GluN2C/GluN2D (formerly NR2C/NR2D) NMDA antagonist
ab120193	UBP141	10mg	>98%	GluN2D (formerly NR2D) antagonist, with some subunit selectivity

GLUTAMATE: NMDA: Glycine Site




Cat No.	Product	Pack Sizes	Purity	Description
ab120024	7-Chlorokynurenic acid	10mg 50mg	>99%	NMDA receptor glycine site antagonist
ab120255	7-Chlorokynurenic acid sodium salt 	10mg 50mg	>99%	NMDA receptor glycine site antagonist; water soluble
ab120017	CNQX	10mg 25mg 50mg	>99%	AMPA / kainate antagonist
ab120044	CNQX disodium salt 	1mg 10mg 50mg	>99%	AMPA / kainate antagonist (water soluble)
ab120121	D-Cycloserine 	50mg 250mg	>99%	NMDA glycine site agonist
ab120023	5,7-Dichlorokynurenic acid	10mg 50mg 100mg	>99%	NMDA receptor glycine site antagonist
ab120254	5,7-Dichlorokynurenic acid sodium salt 	10mg 50mg 100mg	>99%	NMDA receptor glycine site antagonist; water soluble
ab120048	D-Serine 	1g 5g	>99%	Endogenous NMDA receptor co-agonist

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 Products added since publication of the Autumn 2011 catalog.




GLUTAMATE: NMDA: Ion Channel Site

Cat No.	Product	Pack Sizes	Purity	Description
ab120249	Memantine hydrochloride 	50mg	>98%	NMDA antagonist, ion channel site
ab120027	(+)-MK 801 maleate 	10mg 50mg	>99%	Non-competitive NMDA antagonist
ab120028	(-)-MK 801 maleate 	10mg 50mg	>99%	Non competitive NMDA antagonist; less active enantiomer





GLUTAMATE: NMDA: Polyamine Site

Cat No.	Product	Pack Sizes	Purity	Description
ab120111	Ifenprodil	10mg 50mg	>99%	GluN2B (formerly NR2B)-preferring NMDA antagonist
ab120290	Ro 25-6981 maleate salt 	1mg 10mg 50mg	>98%	NR2B antagonist
ab120057	Spermidine hydrochloride 	100mg	>99%	Endogenous polyamine. nNOS inhibitor.
ab120051	Spermine 	100mg 1g	>99%	Endogenous polyamine

















GLUTAMATE: Transporters


Cat No.	Product	Pack Sizes	Purity	Description
ab120066	Dihydrokainic acid 	1mg 10mg 50mg	>99%	EAAT2 inhibitor
ab120272	Riluzole 	10mg 50mg	>99%	Neuroprotective agent. Modulates glutamate transmission.
ab120309	UCPH-101 	1mg 10mg	>98%	Potent, selective EAAT1 inhibitor

GLYCINE


Cat No.	Product	Pack Sizes	Purity	Description
ab120346	<i>N</i> -Arachidonylglycine	5mg 25mg 100mg	>98%	T-type Ca ²⁺ channel blocker. Endogenous GLYT2 inhibitor.
ab120050	Glycine 	100mg 1g	>99%	Inhibitory neurotransmitter
ab120315	Picrotoxin 	1g 5g		GABA _A antagonist
ab120416	Strychnine hydrochloride  	100mg	>99%	Glycine antagonist


HISTAMINE

Cat No.	Product	Pack Sizes	Purity	Description
ab118175	Aminopotentidine Fluorescent ligand (Red) 	50µg 100µg	>97%	Fluorescent H ₂ antagonist
ab120576	Asenapine maleate 	10mg 50mg	>99%	Multiple receptor antagonist. Anti-psychotic agent.
ab120729	(±)-Chlorpheniramine maleate  	100mg	>99%	Potent H ₁ antagonist and SNRI
ab120730	Chlorpromazine hydrochloride  	1g 5g	>99%	Typical antipsychotic. Non-selective receptor antagonist.
ab120731	Cimetidine  	100mg	>99%	Prototypic H ₂ antagonist
ab118649	Clobenpropit fluorescent ligand (Red) 	50µg 100µg	>99%	Fluorescent H ₃ antagonist
ab120732	Cyproheptadine hydrochloride  	50mg 100mg	>99%	Potent H ₁ and 5-HT _{2B} antagonist. Non-selective receptor antagonist.
ab120733	Diphenhydramine hydrochloride  	500mg 1g	>99%	Potent H ₁ antagonist
ab120760	Famotidine 	500mg 1g	>98%	Selective H ₂ antagonist
ab120734	Histamine dihydrochloride  	50mg 250mg		Endogenous histamine receptor agonist
ab120191	JNJ 10191584 maleate	10mg 50mg	>99%	Selective H ₄ antagonist

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 Products added since publication of the Autumn 2011 catalog.

High purity biochemicals















HISTAMINE continued

Cat No.	Product	Pack Sizes	Purity	Description
ab120735	Mepyramine maleate  	100mg	>99%	Selective H ₁ inverse agonist
ab118174	Mepyramine Fluorescent ligand (Red) 	50µg 100µg	>97%	Fluorescent H ₁ antagonist
ab120736	Olanzapine 	10mg 50mg	>99%	Non-selective 5-HT, dopamine, histamine and muscarinic antagonist
ab120738	Ranitidine hydrochloride  	10mg 50mg	>99%	Selective H ₂ antagonist
ab120270	Terfenadine	100mg	>98%	K ⁺ channel blocker. H ₁ antagonist
ab120021	Thioperamide maleate 	10mg 50mg	>99%	Potent, selective H ₃ antagonist

IMIDAZOLINE

Cat No.	Product	Pack Sizes	Purity	Description
ab120731	Cimetidine  	100mg	>99%	Prototypic H ₂ antagonist
ab120753	Clonidine hydrochloride  	100mg	>99%	α ₂ adrenoreceptor agonist
ab120605	Harmaline 	100mg	>99%	β-Carboline. Imidazoline ligand. MAO inhibitor.


ION CHANNELS: CALCIUM


Cat No.	Product	Pack Sizes	Purity	Description
ab120210	ω-Agatoxin IVA 	10µg 100µg	>95%	Ca ²⁺ channel blocker (P and Q type)
ab120346	N-Arachidonylglycine	5mg 25mg 100mg	>98%	T-type Ca ²⁺ channel blocker. Endogenous GLYT2 inhibitor.
ab120215	ω-Conotoxin GVIA  	500µg 1mg	>96%	Ca ²⁺ channel blocker (N type)
ab120211	ω-Conotoxin MVIIC  	100µg 500µg	>95%	Ca ²⁺ channel blocker (P and Q-type)
ab120333	D890  	10mg 50mg	>99%	Intracellular Ca ²⁺ channel blocker
ab120260	Diltiazem 	1g	>99%	L-type Ca ²⁺ channel antagonist
ab120219	Gabapentin 	10mg 50mg	>99%	α ₂ δ ligand
ab120370	Ionomycin (free acid)	1mg 5mg	>99%	Ca ²⁺ ionophore
ab120116	Ionomycin Ca ²⁺ Salt	1mg 5mg	>99%	Ca ²⁺ ionophore
ab120142	Isradipine	10mg 50mg	>98%	L-type Ca ²⁺ channel blocker
ab120531	Nicardipine hydrochloride 	1g 5g	>99%	L-type Ca ²⁺ channel antagonist
ab120135	Nifedipine	250mg 1g	>99%	L-type Ca ²⁺ channel blocker
ab120138	Nimodipine	100mg 500mg	>98%	L-type Ca ²⁺ channel blocker
ab120139	Nitrendipine 	100mg 500mg	>98%	L-type Ca ²⁺ channel blocker
ab120259	SNX 482 	10µg 100µg	>96%	R-Type Ca ²⁺ (Ca _v 2.3) channel blocker
ab120140	Verapamil hydrochloride  	1g	>99%	L-type Ca ²⁺ channel blocker
ab120369	Zonisamide	10mg 50mg	>99%	Non-selective Na ⁺ / Ca ²⁺ channel blocker


ION CHANNELS: CHLORIDE


Cat No.	Product	Pack Sizes	Purity	Description
ab120258	1-EBIO	10mg 50mg	>99%	Activator of Ca ²⁺ -activated K ⁺ channels and CFTR channels

ION CHANNELS: CYCLIC NUCLEOTIDE-GATED

Cat No.	Product	Pack Sizes	Purity	Description
ab120532	L-cis-Diltiazem 	5mg 25mg	>98%	Selective cyclic nucleotide-gated channel blocker

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 Products added since publication of the Autumn 2011 catalog.

ION CHANNELS: IONOPHORES

Cat No.	Product	Pack Sizes	Purity	Description
ab120370	Ionomycin (free acid)	1mg 5mg	>99%	Ca ²⁺ ionophore
ab120116	Ionomycin Ca ²⁺ Salt	1mg 5mg	>99%	Ca ²⁺ ionophore
ab120499	Monensin sodium salt NEW!	100mg 1g	>95%	Na ⁺ ionophore
ab120494	Nigericin Na ⁺ salt NEW! ⓘ	10mg 50mg	>98%	K ⁺ ionophore

ION CHANNELS: OTHER

Cat No.	Product	Pack Sizes	Purity	Description
ab120102	ZD7288 NEW!	10mg 50mg	>98%	Sino-atrial node function modulator

ION CHANNELS: POTASSIUM

Cat No.	Product	Pack Sizes	Purity	Description
ab120122	4-Aminopyridine NEW! ⓘ	100mg	>99%	K ⁺ channel blocker
ab120268	Apamin	500µg	>95%	Blocker of small conductance Ca ²⁺ -activated K ⁺ channels
ab120503	BAPTA-AM NEW!	25mg	>98%	Selective Ca ²⁺ chelator. Analogue of BAPTA.
ab120616	2,3-Butanedione 2-monoxime NEW!	500mg		Non-selective myosin ATPase inhibitor
ab120269	Charybdotoxin NEW!	10µg 100µg	>98%	K ⁺ channel blocker
ab120548	Cisapride NEW!	10mg 50mg	>99%	5-HT ₄ receptor agonist. hERG blocker.
ab120486	Cromakalim NEW!	10mg 50mg	>99%	K _{IR6.x} (K _{ATP}) channel activator
ab120266	Diazoxide	100mg	>99%	Selective K _{IR6.x} (ATP-sensitive K ⁺ channel) activator
ab120158	E-4031 dihydrochloride NEW!	10mg 50mg	>99%	HERG K ⁺ channel blocker
ab120258	1-EBIO	10mg 50mg	>99%	Activator of Ca ²⁺ -activated K ⁺ channels and CFTR channels
ab120267	Glibenclamide	100mg	>99%	K ⁺ channel blocker
ab120502	GW542573X	10mg 50mg	>99%	Novel, selective K _{Ca2} channel activator
ab120379	Iberiotoxin	100µg	>95%	Selective blocker of the high-conductance, Ca ²⁺ -activated K ⁺ channel
ab120485	Levcromakalim NEW!	10mg 50mg	>99%	K _{ATP} channel activator
ab120371	NS309	10mg 50mg	>98%	Activates Ca ²⁺ -activated K ⁺ channels
ab120410	RuBi-4AP NEW! ▲	10mg		Caged K ⁺ channel blocker, uncaged by visible light
ab120656	Tamoxifen citrate NEW!	100mg 1g	>99%	Estrogen receptor antagonist and partial agonist
ab120270	Terfenadine	100mg	>98%	K ⁺ channel blocker. H ₁ antagonist.
ab120484	Tertiapin LQ NEW! NEW! ▲	1mg	>95%	Potent, selective blocker of K _{IR1.1} channels. Tertiapin Q derivative.
ab120432	Tertiapin Q NEW! ▲	1mg	>99%	Potent inward rectifier K ⁺ channel blocker
ab120275	Tetraethylammonium chloride (TEA) NEW!	5g 25g 100g		Non-selective K ⁺ channel blocker
ab120278	Tolbutamide	100mg	>99%	K ⁺ channel blocker
ab120089	XE-991 dihydrochloride NEW!	10mg 50mg	>99%	Potent, selective KCNQ channel blocker; blocks M current

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ION CHANNELS: SODIUM

Cat No.	Product	Pack Sizes	Purity	Description
ab120282	A 803467	10mg 50mg	>98%	Selective Na _v 1.8 channel blocker
ab120281	Amiloride hydrochloride  	100mg	>99%	eNaC blocker
ab120504	Flecainide	10mg 50mg	>99%	Sodium channel blocker
ab120119	N-Methylidocaine iodide 	10mg 50mg	>99%	Anti-arrhythmic
ab120483	Psalmotoxin-1 	20µg 100µg	>95%	Potent, selective ASIC1a blocker
ab120126	QX-222 	10mg 50mg	>99%	Na ⁺ channel blocker
ab120117	QX-314 bromide 	50mg 100mg	>99%	Na ⁺ channel blocker
ab120118	QX-314 chloride 	50mg	>99%	Na ⁺ channel blocker
ab120054	Tetrodotoxin 	1mg	>98%	Na ⁺ channel blocker
ab120055	Tetrodotoxin citrate  	1mg	>98%	Na ⁺ channel blocker; water-soluble
ab120279	Veratridine	10mg 50mg	>97%	Na ⁺ channel opener
ab120369	Zonisamide	10mg 50mg	>99%	Non-selective Na ⁺ / Ca ²⁺ channel blocker




ION CHANNELS: TRP

Cat No.	Product	Pack Sizes	Purity	Description
ab120281	Amiloride hydrochloride  	100mg	>99%	eNaC blocker
ab120025	Capsazepine	10mg 50mg	>99%	VR1 antagonist
ab120554	HC-030031 	10mg 50mg	>99%	TRPA1 blocker, orally active
ab120284	KB-R7943	10mg 50mg	>99%	NCX inhibitor. TRPC blocker.
ab120099	NADA 	5mg 25mg	>98%	Endogenous CB ₁ / TRPV1 agonist
ab120339	Resiniferatoxin 	1mg	>98%	Ultrapotent TRPV1 agonist
ab120280	SKF 96365 	10mg 50mg	>99%	Blocker of TRP cation channels. Inhibits capacitative Ca ²⁺ entry.


MELATONIN


Cat No.	Product	Pack Sizes	Purity	Description
ab120238	Prazosin hydrochloride	50mg 250mg	>99%	α-adrenoceptor antagonist. Melatonin antagonist.

MUSCARINIC



Cat No.	Product	Pack Sizes	Purity	Description
ab120469	Acetylcholine chloride 	50mg 5g		Endogenous neurotransmitter active at acetylcholine receptors
ab120152	AF-DX 116	10mg 50mg	>99%	M ₂ antagonist
ab120151	AQ-RA 741	10mg 50mg	>99%	M ₂ antagonist
ab120730	Chlorpromazine hydrochloride  	1g 5g	>99%	Typical antipsychotic. Non-selective receptor antagonist.
ab120019	Clozapine	50mg 500mg	>98%	Atypical antipsychotic

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MUSCARINIC continued


Cat No.	Product	Pack Sizes	Purity	Description
ab120732	Cyproheptadine hydrochloride  	50mg 100mg	>99%	Potent H ₁ and 5-HT _{2B} antagonist. Non-selective receptor antagonist.
ab120144	4-DAMP 	25mg 100mg	>98%	Muscarinic receptor antagonist
ab120026	N-Desmethyl clozapine	10mg 50mg	>99%	Clozapine metabolite. M ₁ agonist. D ₂ /D ₃ agonist.
ab120736	Olanzapine 	10mg 50mg	>99%	Non-selective 5-HT, dopamine, histamine and muscarinic antagonist
ab120153	Pirenzepine dihydrochloride 	100mg 500mg	>99%	M ₁ antagonist
ab118176	Pirenzepine Fluorescent ligand (Red) 	50µg 100µg	>97%	Fluorescent M ₃ antagonist

NICOTINIC

Cat No.	Product	Pack Sizes	Purity	Description
ab120469	Acetylcholine chloride 	50mg 5g		Endogenous neurotransmitter active at acetylcholine receptors
ab120013	(±)-Anatoxin A fumarate  	1mg	>98%	Potent nicotinic agonist
ab120542	α-Bungarotoxin 	1mg	>99%	Subtype-selective α ₇ nAChR antagonist
ab120534	Bupropion hydrochloride  	50mg 250mg 1g	>98%	Non-selective DAT/NET inhibitor
ab120537	(-)-Cytisine  	10mg 50mg	>99%	Potent, selective nAChR agonist
ab120560	GTS-21 dihydrochloride 	10mg 50mg	>98%	α ₇ nicotinic acetylcholine receptor agonist
ab120538	Hexamethonium bromide  	100mg 1g		Antagonist at α ₃ -containing nAChR
ab120064	Kynurenic acid	1g	>99%	Endogenous ionotropic / nicotinic antagonist
ab120256	Kynurenic acid sodium salt 	1g 5g	>99%	Endogenous ionotropic / nicotinic antagonist; water soluble
ab120459	Mecamylamine hydrochloride 	10mg 50mg		Non-competitive antagonist of nicotinic receptors
ab120072	Methyllycaconitine citrate 	5mg 25mg	>98%	α ₇ -nicotinic receptor antagonist
ab120562	(-)-Nicotine ditartrate  	50mg	>99%	Potent nAChR agonist
ab120535	Pancuronium dibromide   	10mg 50mg 250mg		Competitive nicotinic acetylcholine receptor (nAChR) antagonist
ab120559	PNU 120596 	10mg 50mg	>99%	Positive allosteric modulator for the α ₇ nicotinic acetylcholine receptor
ab120558	PNU 282987 	10mg 50mg	>99%	Selective α ₇ nAChR agonist
ab120450	RuBi-nicotine  	5mg		Novel, caged nicotine compound, uncaged by visible light
ab120553	S 24795 	10mg 50mg	>99%	Partial α ₇ nAChR agonist
ab120416	Strychnine hydrochloride  	100mg	>99%	Glycine antagonist
ab120156	Tropisetron hydrochloride 	10mg 50mg	>99%	5-HT ₃ antagonist
ab120073	(+)-Tubocurarine  	10mg 50mg	>99%	ACh receptor antagonist
ab120536	Vecuronium bromide 	10mg 50mg 250mg		Competitive nicotinic acetylcholine receptor (nAChR) antagonist

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NUCLEAR RECEPTORS

Cat No.	Product	Pack Sizes	Purity	Description
ab120391	Daidzein	50mg	>99%	Phytoestrogen
ab120743	Dexamethasone NEW!	100mg	>99%	Anti-inflammatory glucocorticoid
ab120166	DPN	10mg 50mg	>99%	Potent, selective ER β agonist
ab120390	Equol	5mg 25mg	>99%	Metabolite of phytoestrogen daidzein
ab120657	17 β -Estradiol NEW!	100mg 1g	>99%	Selective agonist of ER receptor
ab120131	ICI 182,780	10mg 50mg	>99%	Estrogen receptor antagonist
ab120719	Indomethacin NEW!	100mg	>99%	Non-selective COX inhibitor
ab120356	Mifepristone	100mg 500mg	>98%	PR and GR antagonist
ab120161	PPT	10mg 50mg	>99%	Subtype selective ER α agonist
ab120656	Tamoxifen citrate NEW!	100mg 1g	>99%	Estrogen receptor antagonist and partial agonist

OPIOIDS

Cat No.	Product	Pack Sizes	Purity	Description
ab120078	nor-Binaltorphimine NEW!	10mg 50mg	>98%	Potent and selective κ opioid receptor antagonist
ab120669	BRL 52537 hydrochloride NEW!	10mg 50mg	>99%	Highly selective, potent κ -opioid agonist
ab120417	CTOP NEW!	1mg	>95%	Potent, selective μ opioid receptor antagonist
ab120673	DADLE NEW!	1mg 5mg		Synthetic δ -opioid peptide agonist
ab120708	[DAla ²]Deltorphin II NEW!	1mg		Selective δ -opioid receptor agonist
ab120412	Dynorphin A NEW!	1mg	>99%	Potent κ agonist
ab120681	Dynorphin B NEW!	1mg		Endogenous opioid peptide. κ opioid receptor agonist.
ab120411	Endomorphin-1 NEW!	5mg	>99%	Highly potent and selective μ agonist
ab120676	Endomorphin 2 NEW!	5mg	>95%	Potent, selective μ opioid receptor agonist
ab120147	Herkinorin	1mg	>98%	Non-internalising μ opioid agonist
ab120713	Loperamide hydrochloride NEW!	1g	>99%	Selective μ opioid receptor agonist
ab120074	Naloxone hydrochloride NEW!	100mg 250mg	>98%	Opioid antagonist
ab120075	Naltrexone hydrochloride NEW!	100mg 250mg	>98%	Opioid antagonist
ab120070	Nociceptin NEW!	1mg 5mg	>95%	ORL ₁ agonist
ab120682	Nociceptin (1-13) NH ₂ NEW!	1mg		Potent ORL ₁ agonist
ab120741	Nociceptin (1-7) NEW!	1mg	>95%	Bioactive fragment of nociceptin. ORL ₁ (NOP) receptor agonist.
ab120084	Salvinorin A	1mg 5mg	>99%	Potent κ agonist

PEPTIDE RECEPTORS

Cat No.	Product	Pack Sizes	Purity	Description
ab120183	Angiotensin II (human) NEW!	5mg 25mg	>95%	Vasoconstrictor peptide
ab120179	AY-NH ₂ NEW!	1mg 5mg	>95%	PAR ₄ agonist peptide
ab120178	BAM (8-22) NEW!	1mg	>95%	SNSR agonist
ab120470	Bradykinin NEW!	1mg 5mg 10mg 25mg	>98%	Bradykinin receptor agonist
ab120209	CCK Octapeptide sulfated NEW!	1mg	>95%	C-terminal octapeptide of CCK
ab120471	Endothelin-1 (human, porcine) NEW!	10ug 100ug 500ug	>97%	Vasoconstrictor peptide

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PEPTIDE RECEPTORS continued

Cat No.	Product	Pack Sizes	Purity	Description
ab120214	Exendin-4	500µg 1mg	>99%	Potent GLP-1 receptor agonist
ab120172	Galanin (1-16) (porcine, rat)	500µg 1mg	>95%	N-terminal galanin fragment
ab120230	Ghrelin (human)	1mg	>95%	Endogenous GHS agonist
ab120231	Ghrelin (rat)	1mg	>95%	Endogenous GHS agonist
ab120181	Kisspeptin-13 (4-13) (human)	1mg	>95%	AXOR12 agonist
ab120188	Locustatachykinin I	1mg	>95%	Insect tachykinin-related peptide
ab120184	Luteinizing Hormone Releasing Hormone (LHRH)	5mg 25mg	>95%	Reproductive hormone
ab120205	α-MSH (free acid)	5mg	>95%	Endogenous melanocortin receptor agonist
ab120189	α-MSH	1mg 5mg	>95%	Endogenous melanocortin receptor agonist
ab120185	Neurokinin A	5mg 25mg	>95%	Tachykinin peptide
ab120174	Neuropeptide S (mouse)	1mg	>95%	NPS receptor agonist
ab120246	Neuropeptide S (rat)	1mg	>95%	NPS receptor agonist
ab120208	Neuropeptide Y (human, rat)	500µg 1mg	>95%	Endogenous neuropeptide
ab120171	Neuropeptide Y 13-36 (porcine)	1mg 5mg	>95%	NPY Y ₂ agonist
ab120071	Obestatin	1mg	>95%	Endogenous peptide involved in feeding
ab120212	Orexin A (bovine, human, mouse, rat)	100µg 500µg 1mg	>99%	Neuropeptide involved in feeding and sleep
ab120186	Oxytocin	5mg 25mg	>95%	Reproductive hormone
ab120204	Oxytocin (free acid)	5mg	>95%	Reproductive hormone
ab120483	Psalmotoxin-1	20µg 100µg	>95%	Potent, selective ASIC1a blocker
ab120176	SLIGRL-NH ₂	1mg	>95%	PAR2 agonist peptide
ab120170	Substance P	1mg 5mg	>95%	Sensory neuropeptide
ab120177	TFLLR-NH ₂	1mg	>95%	PAR1 agonist peptide
ab120175	(Arg-8)-Vasopressin	1mg 5mg	>95%	Vasopressin receptor agonist
ab120180	VIP (6-28)	1mg	>95%	VPAC antagonist

SEROTONIN: 5-HT₁

Cat No.	Product	Pack Sizes	Purity	Description
ab120520	BMY 7378 dihydrochloride	10mg 50mg	>99%	5-HT _{1A} partial agonist. α-adrenoceptor antagonist.
ab120420	Buspirone hydrochloride	1g 5g	>99%	5HT _{1A} agonist. Anxiolytic.
ab120522	CP 94253 dihydrochloride	10mg 50mg	>98%	Highly potent, selective 5-HT _{1B} agonist
ab120507	(R)-(+)-8-Hydroxy-DPAT hydrobromide	10mg 50mg	>98%	Selective full 5-HT _{1A} receptor agonist
ab120349	GR 125743	10mg	>99%	5HT _{1B/1D} antagonist
ab120515	L-694,247	10mg 50mg	>99%	Highly potent 5-HT _{1D} /5-HT _{1B} receptor agonist
ab120594	LP-12 hydrochloride	10mg 50mg	>98%	5-HT ₇ agonist
ab120524	LY 310762 hydrochloride	10mg 50mg	>99%	Potent, 5-HT _{1D} antagonist
ab120543	NAN-190 hydrobromide	50mg 250mg	>99%	Potent 5-HT _{1A} antagonist
ab118177	NAN-190 Fluorescent ligand (Red)	50µg 100µg	>97%	Fluorescent 5-HT _{1A} antagonist
ab120521	Pindolol	250mg 1g	>99%	5-HT _{1A} and 5-HT _{1B} receptor antagonist
ab120601	Rotigotine hydrochloride	10mg 50mg	>99%	Dopamine receptor agonist
ab120583	SB 216641 hydrochloride	10mg 50mg	>98%	Selective h5-HT _{1B} antagonist





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SEROTONIN: 5-HT₁ continued

Cat No.	Product	Pack Sizes	Purity	Description
ab120549	Spiperone hydrochloride 	50mg 250mg	>99%	5HT and D ₂ -like receptor antagonist
ab120514	Sumatriptan succinate 	10mg 50mg	>99%	5-HT ₁ receptor agonist
ab118650	ZM549865 Fluorescent ligand (Red) 	50µg 100µg		Fluorescent 5-HT _{1B} antagonist
ab120550	WAY-100635 maleate 	10mg 50mg	>98%	Potent, selective, silent 5-HT _{1A} receptor antagonist



SEROTONIN: 5-HT₂

Cat No.	Product	Pack Sizes	Purity	Description
ab120730	Chlorpromazine hydrochloride  	1g 5g	>99%	Typical antipsychotic. Non-selective receptor antagonist.
ab120732	Cyproheptadine hydrochloride  	50mg 100mg	>99%	Potent H ₁ and 5-HT _{2B} antagonist. Non-selective receptor antagonist.
ab120132	Ketanserin tartrate  	50mg 250mg	>98%	Selective 5HT ₂ antagonist.
ab120594	LP-12 hydrochloride 	10mg 50mg	>98%	5-HT ₇ agonist
ab120546	LY 272015 hydrochloride 	10mg 50mg	>99%	Highly potent, selective 5-HT _{2B} antagonist
ab120555	α-Methyl 5-hydroxytryptamine maleate  	10mg 50mg 100mg	>99%	5-HT _{2A/2C} receptor agonist
ab120068	Mirtazapine	10mg 50mg	>99%	Antidepressant. α ₂ , 5HT ₂ , 5HT ₃ antagonist
ab120587	Nefazodone hydrochloride 	10mg 50mg	>99%	Potent 5-HT _{2A} antagonist
ab120736	Olanzapine 	10mg 50mg	>99%	Non-selective 5-HT, dopamine, histamine and muscarinic antagonist.
ab120737	Quetiapine hemifumarate 	10mg 50mg	>99%	D ₂ and 5-HT ₂ antagonist. Antipsychotic.
ab120393	Risperidone	10mg 50mg	>99%	Atypical antipsychotic. 5HT _{2A} / D ₂ antagonist.
ab120595	SB 204741 	10mg 50mg	>99%	Selective 5-HT _{2B} receptor antagonist
ab120549	Spiperone hydrochloride 	50mg 250mg	>99%	5HT and D ₂ -like receptor antagonist
ab120394	Ziprasidone 	10mg 50mg	>99%	Atypical antipsychotic. 5HT _{2A} / D ₂ antagonist.


SEROTONIN: 5-HT₃

Cat No.	Product	Pack Sizes	Purity	Description
ab120125	Granisetron 	50mg 250mg	>99%	5HT ₃ antagonist
ab120068	Mirtazapine	10mg 50mg	>99%	Antidepressant. α ₂ , 5HT ₂ , 5HT ₃ antagonist
ab120736	Olanzapine 	10mg 50mg	>99%	Non-selective 5-HT, dopamine, histamine and muscarinic antagonist.
ab120134	Ondansetron	10mg 50mg	>98%	Selective 5HT ₃ antagonist.
ab120511	1-Phenylbiguanide	100mg 1g	>99%	5HT ₃ receptor agonist
ab120540	Quipazine dimaleate  	50mg 250mg	>99%	5-HT receptor agonist
ab120156	Tropisetron hydrochloride 	10mg 50mg	>99%	5-HT ₃ antagonist

SEROTONIN: 5-HT₄


Cat No.	Product	Pack Sizes	Purity	Description
ab120548	Cisapride 	10mg 50mg	>99%	5-HT ₄ receptor agonist. hERG blocker.
ab120544	GR113808 	10mg 50mg	>99%	Potent, highly selective 5-HT ₄ antagonist

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 Just-Add-Water: typically water-soluble to at least 10 mM or above.

 Products added since publication of the Autumn 2011 catalog.





SEROTONIN: 5-HT₅

Cat No.	Product	Pack Sizes	Purity	Description
ab120590	SB 699551 dihydrochloride 	10mg 50mg	>99%	Selective 5-HT _{5A} receptor antagonist




SEROTONIN: 5-HT₆

Cat No.	Product	Pack Sizes	Purity	Description
ab120730	Chlorpromazine hydrochloride  	1g 5g	>99%	Typical antipsychotic. Non-selective receptor antagonist.
ab120328	EMD 386088 hydrochloride 	10mg 50mg	>99%	Potent 5HT ₆ agonist
ab120589	SB 271046 hydrochloride 	10mg 50mg	>99%	Potent, selective 5-HT ₆ antagonist
ab120332	SB 399885 hydrochloride 	10mg 50mg	>99%	Potent, selective 5HT ₆ antagonist










SEROTONIN: 5-HT₇


Cat No.	Product	Pack Sizes	Purity	Description
ab120730	Chlorpromazine hydrochloride  	1g 5g	>99%	Typical antipsychotic. Non-selective receptor antagonist.
ab120594	LP-12 hydrochloride 	10mg 50mg	>98%	5-HT ₇ agonist
ab120593	LP-44 	10mg 50mg	>99%	Highly potent, selective 5-HT ₇ agonist


SEROTONIN: NON-SELECTIVE


Cat No.	Product	Pack Sizes	Purity	Description
ab120576	Asenapine maleate 	10mg 50mg	>99%	Multiple receptor antagonist. Anti-psychotic agent.
ab120564	Cabergoline 	10mg 50mg	>99%	D ₂ -like receptor agonist
ab120019	Clozapine	50mg 500mg	>98%	Atypical antipsychotic
ab120026	N-Desmethyl clozapine	10mg 50mg	>99%	Clozapine metabolite. M ₁ agonist. D ₂ /D ₃ agonist.
ab120526	Metergoline 	10mg 50mg	>99%	Potent 5-HT receptor antagonist
ab120591	5-Methyltryptamine hydrochloride 	250mg	>99%	5-HT agonist
ab120530	Methysergide maleate  	10mg 50mg	>99%	5-HT receptor antagonist
ab120540	Quipazine dimaleate  	50mg 250mg	>99%	5-HT receptor agonist
ab120528	Serotonin hydrochloride 	50mg 250mg 1g	>99%	Endogenous neurotransmitter, 5HT receptor agonist

SEROTONIN: TRANSPORTERS

Cat No.	Product	Pack Sizes	Purity	Description
ab120534	Bupropion hydrochloride  	50mg 250mg 1g	>98%	Non-selective DAT/NET inhibitor
ab120729	(±)-Chlorpheniramine maleate  	100mg	>99%	Potent H ₁ antagonist and SNRI
ab120133	Citalopram 	25mg 100mg	>98%	5HT reuptake inhibitor
ab120077	Fluoxetine hydrochloride 	10mg 50mg	>99%	5HT reuptake inhibitor
ab120755	Milnacipran hydrochloride  	10mg 50mg	>99%	Serotonin and noradrenalin reuptake inhibitor
ab120069	Paroxetine hydrochloride	10mg 50mg	>99%	5HT uptake inhibitor
ab120529	Sibutramine hydrochloride 	10mg 50mg	>98%	Serotonin, noradrenaline & dopamine re-uptake inhibitor







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 Just-Add-Water: typically water-soluble to at least 10 mM or above.
























 Products added since publication of the Autumn 2011 catalog.


High purity biochemicals



SIGNALING: AMYLOIDOGENESIS


Cat No.	Product	Pack Sizes	Purity	Description
ab120479	Amyloid β (1-40) (human)	1mg 5mg	>95%	Amyloid β protein fragment. Implicated in Alzheimer's disease.
ab120301	Amyloid β (1-42) (human)	100 μ g 1mg	>95%	Predominant amyloid- β protein fragment
ab120480	Amyloid β (25-35) (human) 	1mg	>95%	Highly toxic amyloid β protein fragment
ab120481	Amyloid β (42-1) (human)	1mg	>95%	Inactive control for Amyloid β (1-42) peptide
ab120723	Baicalein 	50mg	>98%	Flavonoid. Lipooxygenase inhibitor.
ab120666	Cryptotanshinone 	10mg 50mg	>99%	STAT3 inhibitor with diverse biological activities
ab120726	Resveratrol 	100mg 500mg	>99%	Antioxidant polyphenol with a multitude of biological activities
ab120751	Thioflavin T 	500mg	>97%	Cell permeable amyloid binding benzothiazol salt
ab120647	Honokiol 	10mg 25mg	>98%	Anti-inflammatory and chemotherapeutic agent


SIGNALING: APOPTOSIS & CELL CYCLE

Cat No.	Product	Pack Sizes	Purity	Description
ab120141	Apigenin	10mg 50mg	>98%	Anticancer agent
ab120723	Baicalein 	50mg	>98%	Flavonoid. Lipooxygenase inhibitor.
ab120654	Betulinic acid 	10mg 50mg	>98%	Triterpenoid. Anti cancer agent.TGR5 agonist.
ab120355	Clioquinol 	100mg 1g	>97%	Metal chelator and ionophore
ab120618	Curcumin 	50mg 250mg	>85%	Flavonoid. Lipooxygenase inhibitor. Anti-oxidant, anti-inflammatory agent.
ab120093	Cycloheximide  	100mg 1g	>98%	Protein synthesis inhibitor
ab120727	Deferoxamine Mesylate  	1g		Iron chelator
ab120629	Doxorubicin hydrochloride  	10mg 50mg	>98%	Topoisomerase II inhibitor. Antibiotic with cytotoxic actions.
ab120716	(-)-Epigallocatechin Gallate  	1mg	>98%	Potent anti-oxidant flavonoid
ab120081	FCCP	10mg 50mg	>99%	Mitochondrial oxidative phosphorylation inhibitor
ab120354	Flufenamic acid	100mg	>98%	NSAID. COX inhibitor, channel blocker.
ab120647	Honokiol 	10mg 25mg	>98%	Anti-inflammatory and chemotherapeutic agent
ab120357	Kaempferol	10mg 50mg	>98%	Phytoestrogen. Proapoptotic agent.
ab120501	Leptomycin B (ethanol solution)	5 μ g 25 μ g	>98%	Antibiotic, antifungal. Inhibitor of CRM-1 mediated nuclear export.
ab120662	Luteolin 	10mg 50mg	>99%	Antioxidant, anti-inflammatory, anti-cancer flavonoid
ab120645	Edaravone 	50mg 250mg	>99%	Free radical scavenger with neuroprotective effects
ab120661	Minocycline hydrochloride  	50mg	>99%	Antibiotic. Demonstrates multiple effects.
ab120499	Monensin sodium salt 	100mg 1g	>95%	Na ⁺ ionophore. Apoptosis inducer
ab120143	Paclitaxel	10mg 50mg	>98%	Anticancer agent
ab120478	Pifithrin- α -HBr	10mg 50mg	>98%	p53 inhibitor
ab120247	Quercetin 	100mg	>99%	Anti-oxidative flavonoid
ab120650	Sulindac sulfide 	5mg 25mg	>98%	Active metabolite of Sulindac. COX-1/ 2 inhibitor.
ab120032	(+/-)-Thalidomide 	100mg	>99%	Immunomodulator and anticancer agent
ab120728	trans-Retinoic Acid 	50mg 500mg	>99%	Vitamin A metabolite. Stem cell differentiator.
ab120720	Triptolide from Tripterygium wilfordii 	1mg 10mg	>99%	Anti-inflammatory agent with multiple biological activities.

 Country restrictions and/or license requirements may apply. Please contact customer services for further details.

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 Products added since publication of the Autumn 2011 catalog.


SIGNALING: APOPTOSIS & CELL CYCLE


Cat No.	Product	Pack Sizes	Purity	Description
ab120488	Z-D(OMe)E(OMe)VD(OMe)-FMK	1mg 5mg	>90%	Cell permeable caspase-3 inhibitor
ab120489	Z-LE(OMe)VD(OMe)-FMK	1mg 5mg	>90%	Cell permeable derivative of caspase-4 inhibitor Z-LEVD-FMK
ab120487	Z-VAD(OMe)-FMK	1mg 5mg	>90%	Cell permeable, irreversible pan-caspase inhibitor
ab120382	Z-VAD-FMK	1mg 5mg	>98%	Irreversible general caspase inhibitor

SIGNALING: Ca²⁺ SIGNALING

Cat No.	Product	Pack Sizes	Purity	Description
ab120287	A23187	10mg 50mg	>99%	Ca ²⁺ ionophore
ab120210	ω-Agatoxin IVA 	10μg 100μg	>95%	Ca ²⁺ channel blocker (P and Q type)
ab120124	2-APB	100mg	>98%	Ca ²⁺ release modulator
ab120503	BAPTA-AM 	25mg	>98%	Selective Ca ²⁺ chelator. Analogue of BAPTA.
ab120449	BAPTA sodium salt  	250mg 1g 5g	>98%	Selective Ca ²⁺ chelator
ab120012	CGP 37157	10mg 50mg	>99%	Na ⁺ -Ca ²⁺ exchange inhibitor
ab120215	ω-Conotoxin GVIA  	500μg 1mg	>96%	Ca ²⁺ channel blocker (N type)
ab120211	ω-Conotoxin MVIC  	100μg 500μg	>95%	Ca ²⁺ channel blocker (P and Q-type)
ab120300	Cyclopiazonic acid from <i>Penicillium griseofulvum</i> 	10mg 50mg	>99%	Ca ²⁺ -ATPase inhibitor
ab120333	D890  	10mg 50mg	>99%	Intracellular Ca ²⁺ channel blocker
ab120260	Diltiazem 	1g	>99%	L-type Ca ²⁺ channel antagonist
ab120219	Gabapentin 	10mg 50mg	>99%	α ₂ δ ligand
ab120370	Ionomycin (free acid)	1mg 5mg	>99%	Ca ²⁺ ionophore
ab120116	Ionomycin Ca ²⁺ Salt	1mg 5mg	>99%	Ca ²⁺ ionophore
ab120142	Isradipine	10mg 50mg	>98%	L-type Ca ²⁺ channel blocker
ab120284	KB-R7943	10mg 50mg	>99%	NCX inhibitor. TRPC blocker.
ab120531	Nicardipine hydrochloride 	1g 5g	>99%	L-type Ca ²⁺ channel antagonist
ab120135	Nifedipine	250mg 1g	>99%	L-type Ca ²⁺ channel blocker
ab120138	Nimodipine	100mg 500mg	>98%	L-type Ca ²⁺ channel blocker
ab120139	Nitrendipine 	100mg 500mg	>98%	L-type Ca ²⁺ channel blocker
ab120264	Ruthenium red 	100mg		Calcium signalling inhibitor
ab120083	Ryanodine	1mg	>98%	Ca ²⁺ release modulator
ab120280	SKF 96365 	10mg 50mg	>99%	Blocker of TRP cation channels. Inhibits capacitative Ca ²⁺ entry.
ab120259	SNX 482 	10μg 100μg	>96%	R-Type Ca ²⁺ (Ca _v 2.3) channel blocker
ab120276	tBuBHQ	100mg 500mg	>99%	Sarco-endoplasmic reticulum Ca ²⁺ -ATPase (SERCA) inhibitor
ab120286	Thapsigargin	1mg	>98%	Ca ²⁺ -ATPase inhibitor
ab120739	Trifluoperazine dihydrochloride 	1g	>99%	Cell permeable calmodulin agonist
ab120140	Verapamil hydrochloride  	1g	>99%	L-type Ca ²⁺ channel blocker
ab120369	Zonisamide	10mg 50mg	>99%	Non-selective Na ⁺ / Ca ²⁺ channel blocker


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 Products added since publication of the Autumn 2011 catalog.

High purity biochemicals




SIGNALING: COENZYMES

Cat No.	Product	Pack Sizes	Purity	Description
ab120403	β -Nicotinamide adenine dinucleotide 	25mg 250mg 1g	>96%	Coenzyme and enzyme substrate. P2Y ₁₁ agonist.





SIGNALING: CYTOKINE & NF-KB SIGNALING

Cat No.	Product	Pack Sizes	Purity	Description
ab120718	AMD3100 octahydrochloride  	10mg	>99%	Highly selective CXCR4 antagonist
ab120636	Andrographolide 	100mg	>99%	Potent anti-inflammatory agent
ab120666	Cryptotanshinone 	10mg 50mg	>99%	STAT3 inhibitor with diverse biological activities
ab120647	Honokiol 	10mg 25mg	>98%	Anti-inflammatory and chemotherapeutic agent
ab120662	Luteolin 	10mg 50mg	>99%	Antioxidant, anti-inflammatory, anti-cancer flavonoid
ab120725	Pentoxifylline  	1g 5g	>99%	Phosphodiesterase inhibitor. Cytokine inhibitor.
ab120746	Sodium salicylate  	5g	>99%	Cell permeable anti-inflammatory agent
ab120643	Tranilast 	10mg 50mg	>99%	Anti-inflammatory agent
ab120720	Triptolide from Tripterygium wilfordii 	1mg 10mg	>99%	Anti-inflammatory agent with multiple biological activities












SIGNALING: CYTOSKELETON & MOTOR PROTEINS


Cat No.	Product	Pack Sizes	Purity	Description
ab120425	(+/-)-Blebbistatin	5mg 25mg	>98%	Potent, selective, inhibitor of myosin II
ab120491	(S)-(-)-Blebbistatin 	1mg 5mg	>99%	Selective myosin II ATPase activity inhibitor
ab120299	Brefeldin A	5mg 25mg	>99%	Inhibitor of ADP-ribosylation factor
ab120292	Exo-1	10mg 50mg	>99%	Vesicular trafficking inhibitor
ab120226	Vincristine sulfate salt  	5mg 25mg	>98%	Microtubule inhibitor


SIGNALING: DNA, RNA & PROTEIN SYNTHESIS


Cat No.	Product	Pack Sizes	Purity	Description
ab120495	Anisomycin 	10mg 50mg	>98%	Protein synthesis inhibitor
ab120664	Mycophenolic Acid 	100mg	>99%	Immunosuppressant. Inosine monophosphate dehydrogenase inhibitor.
ab120660	Ribavirin  	10mg 50mg	>99%	Anti-viral nucleoside

SIGNALING: ENDOCYTOSIS & EXOCYTOSIS

Cat No.	Product	Pack Sizes	Purity	Description
ab120730	Chlorpromazine hydrochloride  	1g 5g	>99%	Typical antipsychotic. Non-selective receptor antagonist.
ab120474	Dynamin Inhibitors: Dynole™ Series Kit 	1kit		Dynamin inhibitor kit from the Dynole™ series
ab120473	Dynamin Inhibitors: MiTMAB™ Series Kit 	1kit		Dynamin inhibitor kit from the MiTMAB™ series
ab120475	Dynamin Inhibitors: Iminodyn™ Series Kit 	1kit		Dynamin inhibitor kit from the Iminodyn™ series
ab120468	Dynamin Inhibitors Toolbox	1kit		Dynamin inhibitor kit from the MiTMAB™, Dynole™ and Iminodyn™ chemical series.
ab120689	Dyngo-4a™  	5mg		Novel, highly potent dynamin inhibitor.
ab120464	Dynole-31-2™  	5mg	>98%	Negative control for Dynole 34-2™
ab120463	Dynole-34-2™  	5mg	>98%	Potent dynamin I and dynamin II inhibitor

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 Just-Add-Water: typically water-soluble to at least 10 mM or above.

 Products added since publication of the Autumn 2011 catalog.

SIGNALING: ENDOCYTOSIS & EXOCYTOSIS continued

Cat No.	Product	Pack Sizes	Purity	Description
ab120462	Iminodyn-17™ ▲	5mg	>98%	Negative control for Iminodyn-22™
ab120461	Iminodyn-22™ ▲	5mg	>98%	Potent, broad spectrum dynamin inhibitor
ab120466	MiTMAB™ ▲	5mg		Cell permeable dynamin I and dynamin II inhibitor
ab120467	OcTMAB™ ▲	5mg	>98%	Cell permeable dynamin I and dynamin II inhibitor
ab120685	Pitstop 1™ ▲ NEW!	5mg		Novel, selective clathrin inhibitor
ab120686	Pitstop 1™ - negative control ▲ NEW!	5mg		Negative control for clathrin inhibitor Pitstop 1™
ab120687	Pitstop 2™ ▲ NEW!	5mg		Novel, selective cell permeable clathrin inhibitor
ab120688	Pitstop 2™ - negative control ▲ NEW!	5mg		Negative control for clathrin inhibitor Pitstop 2™
ab120476	Pro-Myristic Acid ▲	5mg		Negative control for MiTMAB™ and OcTMAB™
ab120465	RTIL-13™ ▲	5mg	>98%	Potent dynamin I and II inhibitor

SIGNALING: HEDGEHOG SIGNALING

Cat No.	Product	Pack Sizes	Purity	Description
ab120392	Cyclopamine	1mg 5mg	>97%	Hh signaling inhibitor

SIGNALING: IMMUNOMODULATORS

Cat No.	Product	Pack Sizes	Purity	Description
ab120636	Andrographolide NEW!	100mg	>99%	Potent anti-inflammatory agent
ab120727	Deferoxamine Mesylate NEW! ▲	1g		Iron chelator
ab120223	FK506 ⓘ	10mg 50mg	>98%	Immunosuppressant
ab120724	Inosine NEW! ▲	100mg 1g	>99%	Purine nucleoside. Adenosine metabolite.
ab120661	Minocycline hydrochloride NEW! ▲	50mg	>99%	Antibiotic. Demonstrates multiple effects.
ab120664	Mycophenolic Acid NEW!	100mg	>99%	Immunosuppressant. Inosine monophosphate dehydrogenase inhibitor.
ab120725	Pentoxifylline NEW! ▲	1g 5g	>99%	Phosphodiesterase inhibitor. Cytokine inhibitor.
ab120224	Rapamycin	1mg 5mg	>98%	Immunosuppressant
ab120032	(+/-)-Thalidomide ⓘ	100mg	>99%	Immunomodulator and anticancer agent
ab120720	Triptolide from Tripterygium wilfordii NEW!	1mg 10mg	>99%	Anti-inflammatory agent with multiple biological activities.

SIGNALING: INOSITOL & cAMP SIGNALING

Cat No.	Product	Pack Sizes	Purity	Description
ab120493	Adenosine 3',5'-cyclic monophosphate ▲	1g 5g 25g	>98%	Second messenger. PKA activator.
ab120124	2-APB	100mg	>98%	Ca ²⁺ release modulator
ab120424	8-(4-Chlorophenylthio)adenosine 3',5'-cyclic monophosphate ▲	20mg 100mg	>98%	Cell permeable cAMP analogue, protein kinase modulator
ab120058	Forskolin	10mg 50mg 100mg	>98%	Adenylyl cyclase activator
ab120341	H89 dihydrochloride	1mg 10mg 50mg	>98%	Kinase inhibitor
ab120190	NKH 477 ▲	10mg 50mg	>98%	Water-soluble analogue of forskolin, an adenylyl cyclase activator
ab120642	SQ 22536 NEW!	10mg 50mg	>99%	Potent non-competitive adenylyl cyclase inhibitor

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NEW! Products added since publication of the Autumn 2011 catalog.

High purity biochemicals

SIGNALING: LIPID SIGNALING

Cat No.	Product	Pack Sizes	Purity	Description
ab120618	Curcumin NEW!	50mg 250mg	>85%	Flavonoid. Lipoxygenase inhibitor. Anti-oxidant, anti-inflammatory agent.
ab120621	Diclofenac Sodium NEW!	1g	>99%	Potent cyclo-oxygenase inhibitor
ab120716	(-)-Epigallocatechin Gallate NEW! Just-Add-Water	1mg	>98%	Potent anti-oxidant flavonoid
ab120614	Lovastatin NEW!	10mg 50mg	>98%	Potent HMG CoA reductase inhibitor
ab120662	Luteolin NEW!	10mg 50mg	>99%	Antioxidant, anti-inflammatory, anti-cancer flavonoid
ab120243	LY 294002	5mg 25mg	>99%	PI-3 kinase inhibitor
ab120145	Nicotinic acid Just-Add-Water	10g	>98%	Antidyslipidemic agent
ab120295	NS 398	10mg 50mg	>98%	COX-2 inhibitor
ab120505	Simvastatin	50mg 250mg	>99%	HMG-CoA reductase inhibitor
ab120650	Sulindac sulfide NEW!	5mg 25mg	>98%	Active metabolite of Sulindac. COX-1/ 2 inhibitor.
ab120148	Wortmannin !	1mg 5mg	>98%	PI3-kinase inhibitor

SIGNALING: NITRIC OXIDE & OXIDATIVE STRESS

Cat No.	Product	Pack Sizes	Purity	Description
ab120123	Aminoguanidine hydrochloride Just-Add-Water	100mg	>98%	NOS inhibitor
ab120750	L-Arginine NEW! Just-Add-Water	100mg	>98%	Precursor to nitric oxide synthesis
ab120653	2-Methoxyestradiol NEW!	10mg 50mg	>98%	Potent antitumor and antiangiogenic agent
ab120661	Minocycline hydrochloride NEW! Just-Add-Water	50mg	>99%	Antibiotic. Demonstrates multiple effects.
ab120137	N ^G -Monomethyl-L-arginine, monoacetate salt Just-Add-Water	10mg 50mg	>99%	NOS inhibitor
ab120721	Myricetin NEW!	5mg 25mg	>97%	Potent anti-neoplastic, anti-oxidant and anti-inflammatory agent
ab120233	7-Nitroindazole	50mg	>98%	NOS inhibitor
ab120136	N ^ω -Nitro-L-arginine Methyl Ester hydrochloride Just-Add-Water	100mg	>98%	NOS inhibitor
ab120285	S-Nitrosoglutathione Just-Add-Water	10mg 50mg		NO donor
ab120726	Resveratrol NEW!	100mg 500mg	>99%	Antioxidant polyphenol with a multitude of biological activities
ab120014	SNAP	10mg 50mg		NO donor
ab120057	Spermidine hydrochloride Just-Add-Water	100mg	>99%	Endogenous polyamine. nNOS inhibitor.
ab120165	1400W Just-Add-Water	10mg 50mg	>99%	Selective iNOS inhibitor

SIGNALING: STEM CELLS

Cat No.	Product	Pack Sizes	Purity	Description
ab120718	AMD3100 octahydrochloride NEW! Just-Add-Water	10mg	>99%	Highly selective CXCR4 antagonist
ab120728	trans-Retinoic Acid NEW!	50mg 500mg	>99%	Vitamin A metabolite. Stem cell differentiator.

TRG5

Cat No.	Product	Pack Sizes	Purity	Description
ab120654	Betulinic acid NEW!	10mg 50mg	>98%	Triterpenoid. Anti cancer agent. TGR5 agonist.

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NEW! Products added since publication of the Autumn 2011 catalog.

TRANSPORTERS

Cat No.	Product	Pack Sizes	Purity	Description
ab120095	AM404	10mg 50mg	>99%	Anandamide transport inhibitor
ab120346	N-Arachidonylglycine	5mg 25mg 100mg	>98%	T-type Ca ²⁺ channel blocker. Endogenous GLYT2 inhibitor.
ab120574	Bromocriptine mesylate	100mg 500mg	>99%	Potent, selective D ₂ -like dopamine receptor agonist
ab120534	Bupropion hydrochloride	50mg 250mg 1g	>98%	Non-selective DAT/NET inhibitor
ab120012	CGP 37157	10mg 50mg	>99%	Na ⁺ -Ca ²⁺ exchange inhibitor
ab120729	(±)-Chlorpheniramine maleate	100mg	>99%	Potent H ₁ antagonist and SNRI
ab120133	Citalopram	25mg 100mg	>98%	5HT reuptake inhibitor
ab120300	Cyclopiazonic acid from <i>Penicillium griseofulvum</i>	10mg 50mg	>99%	Ca ²⁺ -ATPase inhibitor
ab120066	Dihydrokainic acid	1mg 10mg 50mg	>99%	EAAT2 inhibitor
ab120500	Esomeprazole sodium	50mg 250mg	>99%	H ⁺ /K ⁺ -ATPase (proton pump) inhibitor
ab120331	FFN511	1mg 5mg	>99%	Fluorescent false neurotransmitter; highly efficient optical tracer of dopamine
ab120077	Fluoxetine hydrochloride	10mg 50mg	>99%	5HT reuptake inhibitor
ab120314	Furosemide	1g 5g 10g	>99%	Inhibitor of the Na ⁺ /2Cl ⁻ /K ⁺ cotransporter. Also GABA _A antagonist.
ab120607	GBR 12909 dihydrochloride	10mg 50mg	>99%	Selective dopamine transport inhibitor
ab120769	Maprotiline hydrochloride	100mg	>99%	Noradrenaline reuptake inhibitor
ab120552	α-(Methylamino)isobutyric acid	250mg 1g	>97%	Glutamine transport inhibitor
ab120755	Milnacipran hydrochloride	10mg 50mg	>99%	Serotonin and noradrenalin reuptake inhibitor
ab120587	Nefazodone hydrochloride	10mg 50mg	>99%	Potent 5-HT _{2A} antagonist
ab120312	Nipecotinic acid	100mg 1g 5g	>98%	GABA reuptake inhibitor
ab120317	NNC 05-2090	10mg 50mg	>99%	GABA uptake inhibitor
ab120364	NNC 711	10mg 50mg	>99%	Potent, selective GAT-1 inhibitor
ab120748	Ouabain	100mg	>95%	Na ⁺ /K ⁺ ATPase inhibitor
ab120069	Paroxetine hydrochloride	10mg 50mg	>99%	5HT uptake inhibitor
ab120157	Reboxetine mesylate	10mg 50mg	>99%	Noradrenaline reuptake inhibitor
ab120609	Reserpine	250mg 1g	>98%	Irreversible vesicular monoamine transporter (VMAT2) antagonist
ab120272	Riluzole	10mg 50mg	>99%	Neuroprotective agent. Modulates glutamate transmission.
ab120326	SKF89976A hydrochloride	10mg 50mg	>99%	Highly selective GAT-1 inhibitor
ab120529	Sibutramine hydrochloride	10mg 50mg	>98%	Serotonin, noradrenaline & dopamine re-uptake inhibitor
ab120276	tBuBHQ	100mg 500mg	>99%	Sarco-endoplasmic reticulum Ca ²⁺ -ATPase (SERCA) inhibitor
ab120286	Thapsigargin	1mg	>98%	Ca ²⁺ -ATPase inhibitor
ab120237	Tiagabine hydrochloride	10mg 50mg	>99%	Selective GAT-1 inhibitor
ab120309	UCPH-101	1mg 10mg	>98%	Potent, selective EAAT1 inhibitor

Country restrictions and/or license requirements may apply. Please contact customer services for further details.

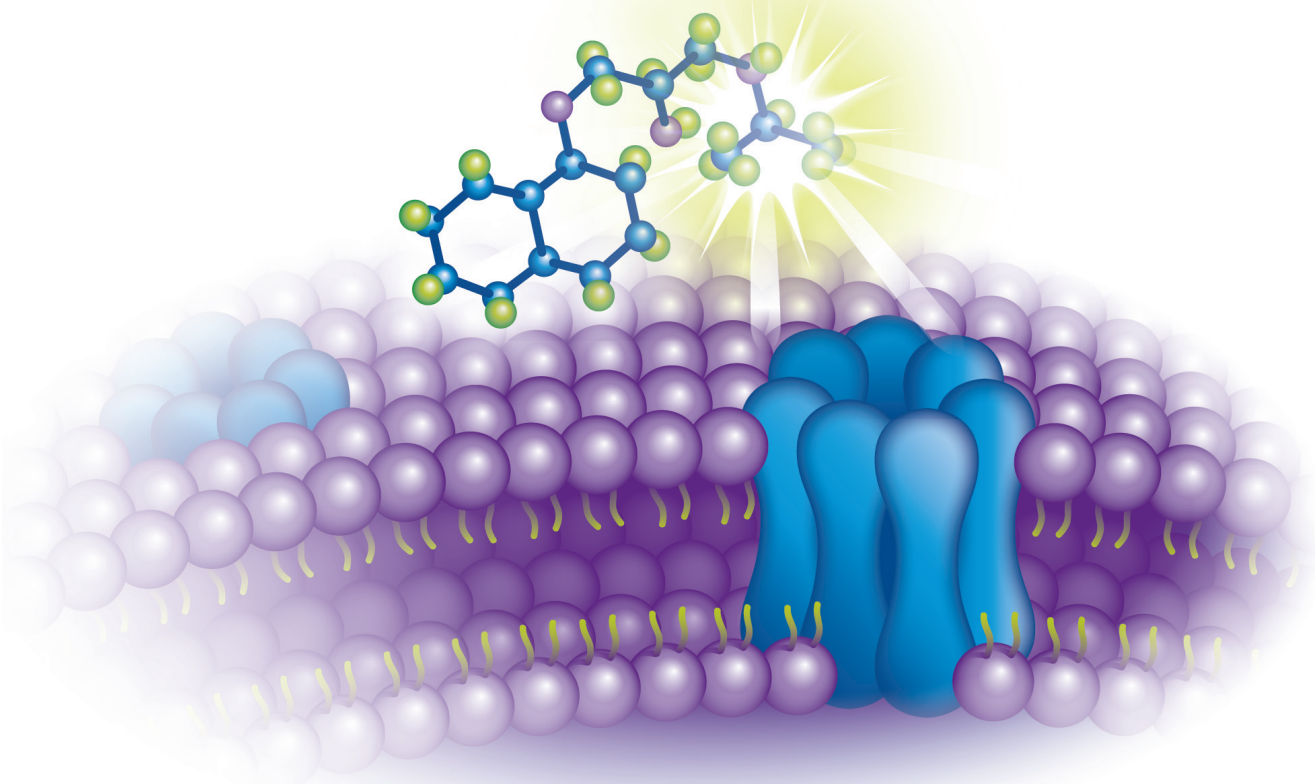
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Products added since publication of the Autumn 2011 catalog.

Novel fluorescent GPCR ligands



Fluorescent G-protein coupled receptor (GPCR) ligands are an exciting alternative to radiolabelled GPCR ligands. Endogenous ligands for GPCRs are a varied range of hormones, transmitters, autocrine factors and even photons. Our current range of fluorescent ligands consists of agonist and antagonists linked to a fluorescent dye. The pharmacological properties of the final fluorescent molecule are closely matched to the parent pharmacophore, with extensive testing and characterisation carried out to determine the affinity and activity.

Fluorescent ligands are suitable for a wide range of applications which include localizing receptor distribution in tissues and cells, and live-cell imaging of receptor kinetics. Fluorescent molecules have been reported as offering a safer, more powerful and versatile alternative to radioligands in molecular pharmacology and drug discovery.

Applications:

- Fluorescent microscopy (confocal and wide-field) – enables localization of receptor distribution in tissue sections, cell culture and single cells
- High content screening/analysis – live cell imaging of receptor kinetics
- Fluorescence correlation spectroscopy - real-time analysis of single molecule ligand-receptor interactions
- Ligand binding kinetics - real-time analysis to determine receptor affinity
- Flow cytometry and fluorescence activated cell sorting – direct receptor ligand binding, when used in cells expressing specific receptor
- Dual read-out binding and function (calcium signaling) – distinguishes between agonists, antagonists/inverse agonists, off-target effects and non-binders in one assay
- High throughput screening

Advantages of fluorescent ligands:

- Fluorescent ligands can be washed off; GPCR remains functional
- Immediate real time read-out
- Enhanced safety and simple disposal
- Provides visual confirmation of receptor binding
- Miniaturization to single cell/receptor level
- Used with other color read-outs – function and co-localization can be determined

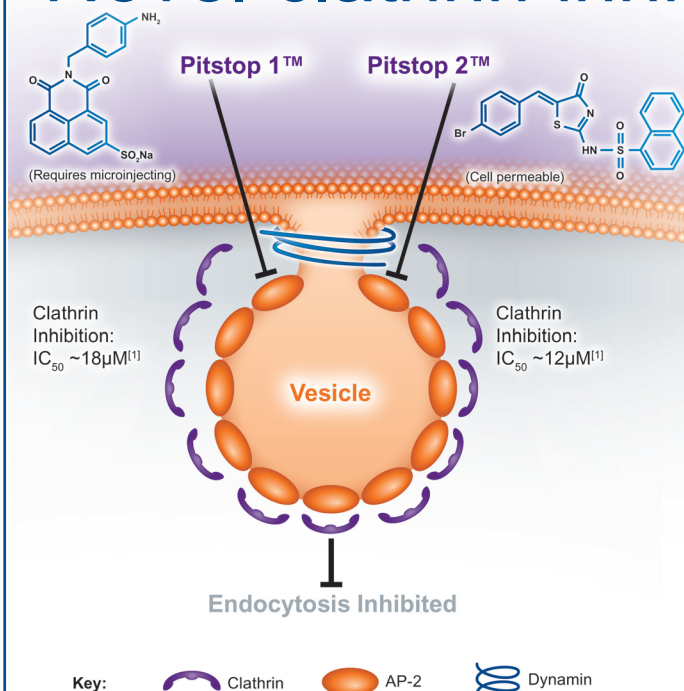
The fluorophore attached to the ligands is BODIPY-630/650* which has a number of advantages:

- Compatible with other fluorescent techniques; Hoechst DNA, GFP and Ca²⁺ dyes. The flexible linker allows other fluorophores to come into close proximity for FRET/HTRF readouts.
- Fluoresces up to 20 x brighter in an organic solvent, whilst the background aqueous fluorescence is low

Cat No	Product	Description	Pharmacophore	Fluorophore
ab118171	(S)-Carazolol Fluorescent ligand (red)	Fluorescent β_2 antagonist / partial β_3 agonist	(S)-Carazolol derivative	BODIPY-630/650*
ab118169	(S)-Propranolol Fluorescent ligand (red)	Fluorescent β_2 adrenoceptor antagonist	(S)-Propranolol derivative	BODIPY-630/650*
ab118167	Alprenolol Fluorescent ligand (red)	Fluorescent β_2 adrenoceptor antagonist	(\pm)-Alprenolol-derivative	BODIPY-630/650*
ab118175	Aminopotentidine Fluorescent ligand (red)	Fluorescent H ₂ antagonist	Aminopotentidine derivative	BODIPY-630/650*
ab118173	CGP-54626A Fluorescent ligand (red)	Fluorescent GABA _B antagonist	CGP-54626A derivative	BODIPY-630/650*
ab118649	Clobenpropit Fluorescent ligand (red)	Fluorescent H ₃ antagonist	Clobenpropit derivative	BODIPY-630/650*
ab118174	Mepyramine Fluorescent ligand (red)	Fluorescent H ₁ antagonist	Mepyramine derivative	BODIPY-630/650*
ab118177	NAN-190 Fluorescent ligand (red)	Fluorescent 5-HT _{1A} antagonist	NAN-190 derivative	BODIPY-630/650*
ab118162	NECA Fluorescent ligand (red)	Fluorescent non-selective adenosine agonist	NECA derivative	BODIPY-630/650*
ab118170	Pindolol Fluorescent ligand (red)	Fluorescent β_2 antagonist	(\pm)-Pindolol derivative	BODIPY-630/650*
ab118176	Pirenzepine Fluorescent ligand (red)	Fluorescent M ₃ Fluorescent	Pirenzepine derivative	BODIPY-630/650*
ab118168	Propranolol Fluorescent ligand (red)	Fluorescent β_2 adrenoceptor antagonist	(\pm)-Propranolol derivative	BODIPY-630/650*
ab118165	Salbutamol Fluorescent ligand (red)	Fluorescent β_2 adrenoceptor agonist	Salbutamol derivative	BODIPY-630/650*
ab118172	SKF83566 Fluorescent ligand (red)	Fluorescent D ₁ antagonist	SKF83566 derivative	BODIPY-630/650*
ab118163	XAC Fluorescent ligand-1 (red)	Fluorescent non-selective adenosine antagonist	XAC derivative	BODIPY-630/650*
ab118164	XAC Fluorescent ligand-2 (red)	Fluorescent A ₃ antagonist	XAC derivative	BODIPY-630/650*
ab118650	ZM549865 Fluorescent ligand (red)	Fluorescent 5-HT _{1B} antagonist	ZM549865 derivative	BODIPY-630/650*

*BODIPY is a registered trademark of Molecular Probes®

Novel clathrin inhibitors!



The novel Clathrin inhibitors Pitstop 1™ and Pitstop 2™ are the first rationally designed inhibitors of clathrin, and represent important tools for investigating essential cellular processes such as endocytosis.

Clathrin-mediated endocytosis is crucial to many physiological processes including the internalization of growth factors, receptors, ion channels, adhesion proteins and synaptic vesicle proteins and, notably, is hijacked during the entry of pathogens such as HIV-1.

The clathrin inhibitors Pitstop 1™ and Pitstop 2™ are novel tools which selectively inhibit accessory proteins associated with the clathrin terminal domain (TD). These exciting new tools allow the further exploration of clathrin function and may also provide potential applications as virus and pathogen entry inhibitors and cell signaling and neurotransmission modulators.

Sold under exclusive licence from Children's Medical Research Institute and Newcastle Innovation Ltd. Pitstop-2™ is a trademark of Freie Universität Berlin, Newcastle Innovation Ltd. and Children's Medical Research Institute.

Cat No.	Product	Pack Sizes	Description
ab120685	Pitstop 1™ NEW! ▲	5mg	Novel, selective clathrin inhibitor
ab120686	Pitstop 1™ - negative control NEW! ▲	5mg	Negative control for clathrin inhibitor Pitstop 1™
ab120687	Pitstop 2™ NEW!	5mg	Novel, selective cell permeable clathrin inhibitor
ab120688	Pitstop 2™ - negative control NEW! ▲	5mg	Negative control for clathrin inhibitor Pitstop 2™

Pitstop 1™

Novel, selective clathrin inhibitor (ab120685). Competitively inhibits clathrin terminal domain to selectively inhibit clathrin mediated endocytosis ($IC_{50} \sim 18\mu M$ for inhibition of amphiphysin (accessory protein) association of clathrin TD). Interferes with receptor mediated endocytosis, entry of HIV and synaptic vesicle recycling. Exhibits limited cell membrane penetration, however it is active in cells after microinjection.

Pitstop 1™ – negative control

Negative control for clathrin inhibitor Pitstop 1™ (ab120686) which is of the same chemical class and has a highly related structure to Pitstop 1™. Inhibits amphiphysin binding to the clathrin TD with an $IC_{50} > 100mM$ and does not block receptor-mediated endocytosis at concentrations of up to 300 μM (unpublished reports).

Pitstop 2™

Novel, selective, cell membrane permeable clathrin inhibitor (ab120687). Competitively inhibits clathrin TD to selectively inhibit clathrin mediated endocytosis ($IC_{50} = 12\mu M$ for inhibition of amphiphysin association of clathrin TD). Interferes with receptor mediated endocytosis, entry of HIV and synaptic vesicle recycling.

Pitstop 2™ – negative control

Negative control for clathrin inhibitor Pitstop 2™ (ab120688) which is of the same chemical class and has a highly related structure to Pitstop 2™. Inhibits amphiphysin binding to the clathrin TD with an $IC_{50} > 100\mu M$ and does not block receptor-mediated endocytosis at concentrations of up to 300mM (unpublished reports).

Reference:

von Kleist et al (2011) Role of the clathrin terminal domain in regulating coated pit dynamics revealed by small molecule inhibition. *Cell*, 146(3):471-84.

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NEW! Products added since publication of the Autumn 2011 catalog.

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To process your order we require the following:

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Abcam plc

330 Cambridge Science Park
Cambridge
CB4 0FL
UK

Tel: +44 (0)1223 696000
Fax: +44 (0)1223 771600

Abcam Inc

1 Kendall Square
Suite B2304
Cambridge
MA 02139-1517
USA

Tel: 888-77-ABCAM (22226)
Fax: 866-739-9884

Abcam K.K.

2-2-1 Nihonbashi
Horidome-cho
Chuo-ku,
Tokyo 103-0012
Japan

Tel: +81-(0)3-6231-0940
Fax: +81-(0)3-6231-0941

Abcam (Hong Kong) Ltd

Unit 712, 7th Floor, Lakeside 1
No. 8 Science Park West Avenue
Hong Kong Science Park
Pak Shek Kok, New Territories,
Hong Kong

Tel: (852) 2603-6823
Fax: (852) 3016-1888

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