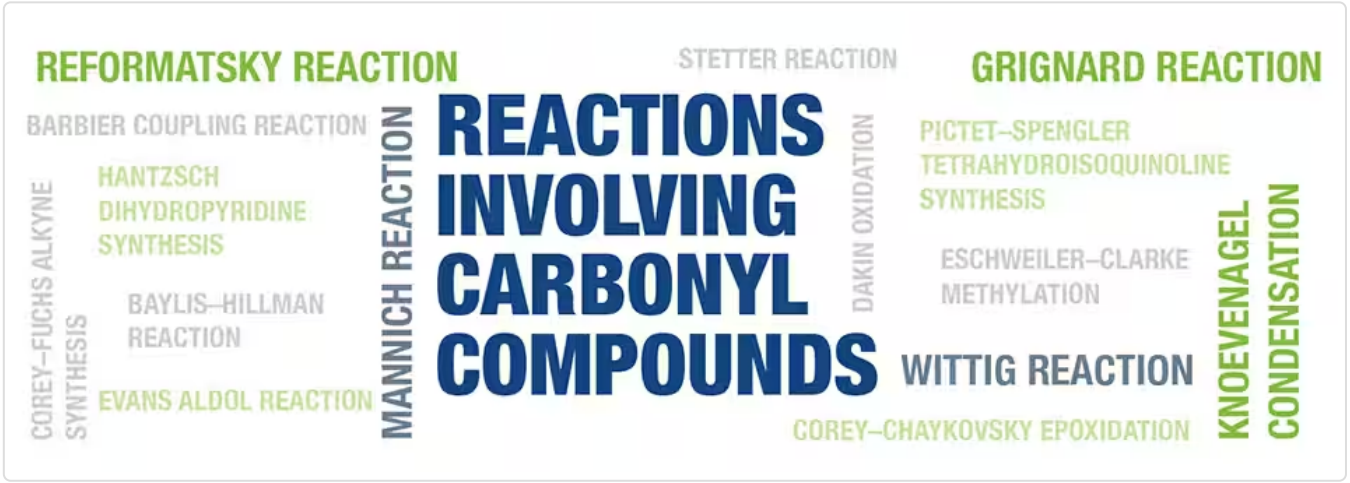
Protected & Chiral Compounds

The protection of organic compounds plays an important role in multistep organic synthesis. Protection of functional groups is preferred to avoid unwanted reactions to obtain chemoselectivity in organic synthesis. The reduction of ester to alcohols using LiAlH4 in the presence of carbonyl groups is carried out by protecting the carbonyl group with acetal to avoid the interference during the reduction to get desired alcohol. The alcohols are protected by acetyl, benzoyl, benzyl, p-methoxybenzyl, silyl, or trityl groups. The common protecting groups used for amines are p-methoxybenzyloxycarbonyl, tert-butyloxycarbonyl, Tosyl, and p-methoxybenzyl. Acetals, ketals, dithianes are often used as protection for carbonyl groups. Similarly carboxyl groups are protected as methyl esters, benzyl esters, nitrobenzyl esters, p-methoxybenzyl esters, allyl esters, tert-butyl esters, and silyl esters.

Benzyloxycarbonyl Compounds

Benzyloxycarbonyl compounds (abbreviated as Cbz or Z) are organic compounds containing the carbonyl group attached to a benzyloxy group. Benzyloxylcarbonyl derivatives are used in peptide synthesis as nitrogen protecting groups (Green, T. W.; Wuts, P. G. M., *Protective Groups in Organic Synthesis,* Wiley-Interscience, New York, 1999, pp 531-537, 736-739). The amine group is protected by Benzyloxycarbonyl from attack by electrophiles and other reagents employed during organic transformations. The synthesis of many organic compounds is most conveniently performed by the route of an N-benzyloxycarbonyl-substituted compound as an intermediate and then elimination of the protecting group at the final stage by catalytic reduction with hydrogen or treatment with hydrobromic acid to liberate the desired compound.



H64891	1-Benzyloxycarbonyl-1,2,3,6-tetrahydropyridine-4-boronic acid pinacol ester, 98%
H27583	1-Benzyloxycarbonyl-(2S,4R)-2-cyano-4-fluoropyrrolidine, 97%
H66676	1-Benzyloxycarbonyl-3-bromopyrrolidine, tech. 90%
H64471	1-Benzyloxycarbonyl-3-piperidone, 97+%
H66054	1-Benzyloxycarbonyl-4-oxo-L-proline, 97%
H65307	1-Benzyloxycarbonyl-L-prolinamide, 95%
H56008	1-(Benzyloxycarbonyl)piperazine, 98%
H28117	1-Benzyloxycarbonylpyrrolidine-3-carboxaldehyde, 97%
H64728	1-(Benzyloxycarbonyl)pyrrolidine-3-carboxylic acid, 97%
H28525	(±)-3-Amino-1-(benzyloxycarbonyl)pyrrolidine
H52938	3-Benzyloxycarbonyl-5-nitrobenzeneboronic acid, 95%
H52536	3-Benzyloxycarbonylamino-5-nitrobenzeneboronic acid, 98%
H52831	3-(Benzyloxycarbonylamino)azetidine, 97%
H53128	3-(Benzyloxycarbonyl)benzeneboronic acid, 98%

H52282	4-(Benzyloxycarbamoyl)benzeneboronic acid pinacol ester, 95%
H52969	4-Benzyloxycarbonyl-2-nitrobenzeneboronic acid, 95%
H27034	4-Benzyloxycarbonyl-2-piperazinone, 97%
H52931	4-Benzyloxycarbonylamino-3-fluorobenzeneboronic acid, 98%
H52690	4-(Benzyloxycarbonylamino)benzeneboronic acid, 96%
H66857	4-(Benzyloxycarbonylamino)butyric acid, 98%
H26016	4-(Benzyloxycarbonylamino)cyclohexanol, 97%, predominantly trans
H26015	4-(Benzyloxycarbonylamino)cyclohexanone, 97%
H64958	5-(Benzyloxycarbonylamino)valeric acid, 97%
H60821	(5R,6S)-(-)-4-Benzyloxycarbonyl-5,6-diphenyl-2-morpholinone, 98%
B22506	(±)-Benzyloxycarbonyl-alpha-phosphonoglycine trimethyl ester, 97%
H62329	cis-2-(Benzyloxycarbonylamino)cyclobutanecarboxylic acid, 97%
H62094	cis-3-(Benzyloxycarbonylamino)cyclohexanemethanol, 97%
H62546	cis-4-(Benzyloxycarbonylamino)cyclohexanecarboxaldehyde, 96%
H62109	cis-4-(Benzyloxycarbonylamino)cyclohexanecarboxylic acid, 97%
H27832	Methyl (±)-1-benzyloxycarbonyl-4-Boc-piperazine-2-carboxylate
H62560	Methyl trans-3-(benzyloxycarbonylamino)cyclohexanecarboxylate, 97%
L13471	N-(2-Bromobenzyloxycarbonyloxy)succinimide, 98+%
H62459	Nalpha-Benzyloxycarbonyl-D-asparagine, 95%

H66152	Nalpha-Benzyloxycarbonyl-DL-histidine, 98%
H65640	Nalpha-Benzyloxycarbonyl-D-lysine, 95%
H62025	Nalpha-Benzyloxycarbonyl-L-2,3-diaminopropionic acid, 98%
H63052	Nalpha-Benzyloxycarbonyl-L-ornithine, 98%
H63549	Nalpha-Benzyloxycarbonyl-Ndelta-trityl-L-glutamine, 98%
H66240	Nalpha-Benzyloxycarbonyl-Nomega-(4-methoxybenzenesulfonyl)-L-arginine dicyclohexylammonium salt, 95%
H63392	Nalpha-Benzyloxycarbonyl-Nomega-nitro-L-arginine, 98%
H63728	Nalpha-Benzyloxycarbonyl-O-tert-butyl-D-serine, 98%
H63042	Nalpha-Benzyloxycarbonyl-O-tert-butyl-D-tyrosine dicyclohexylammonium salt, 98%
H62866	Nalpha-Fmoc-Nepsilon-benzyloxycarbonyl-L-lysine, 98%
H63621	Nalpha,Ndelta,Nomega-Tris(benzyloxycarbonyl)-L-arginine, 95%
H63103	N-Benzyloxycarbonyl-1,3-diaminopropane hydrochloride, 97%
H54782	N-Benzyloxycarbonyl-1H-pyrazole-1-carboxamidine, 98+%
H63119	N-Benzyloxycarbonyl-2-methylalanine, 98%
H66859	N-Benzyloxycarbonyl-3-(Fmoc-amino)-L-alanine, 95%
H63993	N-Benzyloxycarbonyl-4-trans-hydroxy-L-proline methyl ester, 98%
L08997	N-Benzyloxycarbonyl-6-aminohexanoic acid, 98%

H65212	N-(Benzyloxycarbonyl)alanyl-L-alaninamide, 97%
H57643	N-(Benzyloxycarbonyl)azetidine-3-carboxylic acid, 95%
H65325	N-Benzyloxycarbonyl-D-aspartic acid 4-benzyl ester, 95%
H63371	N-Benzyloxycarbonyl-D-glutamic-acid 5-tert-butyl ester, 98%
H61401	N-Benzyloxycarbonyl-D-glutamic acid, 95%
H66587	N-Benzyloxycarbonyl-DL-asparagine, 98%
H66950	N-Benzyloxycarbonyl-DL-aspartic acid, 95%
H66498	N-Benzyloxycarbonyl-DL-norvaline, 98%
H66783	N-Benzyloxycarbonyl-DL-valine, 98%
H63152	N-Benzyloxycarbonyl-D-methionine, 98%
H65972	N-Benzyloxycarbonyl-D-phenylalaninamide, 97%
H62085	N-Benzyloxycarbonylglycinamide, 97%
H62858	N-Benzyloxycarbonylglycine methyl ester, 98%
H63723	N-Benzyloxycarbonyl-L-2-cyclohexylglycine, 95%
H62749	N-Benzyloxycarbonyl-L-alanine methyl ester, 95%
H62306	N-Benzyloxycarbonyl-L-aspartic acid 1-benzyl ester, 95%
H63642	N-Benzyloxycarbonyl-L-aspartic acid 4-methyl ester, 98%
H66384	N-Benzyloxycarbonyl-L-aspartic acid 4-tert-butyl ester 1-methyl ester, 98%

	H65816	N-Benzyloxycarbonyl-L-aspartic acid 4-tert-butyl ester 1-(N-succinimidyl) ester, 95%
	H62975	N-Benzyloxycarbonyl-L-glutamic acid 1-benzyl ester, 95%
	H53417	N-Benzyloxycarbonyl-L-glutamic acid 1-methyl ester, 98%
	H63954	N-Benzyloxycarbonyl-L-glutamic acid 1-tert-butyl ester, 95%
	H66564	N-Benzyloxycarbonyl-L-glutamic acid 1-tert-butyl ester dicyclohexylammonium salt, 95%
	H62181	N-Benzyloxycarbonyl-L-glutamic acid 5-benzyl ester, 95%
	H65088	N-Benzyloxycarbonyl-L-glutaminylglycine, 98%
	H66733	N-Benzyloxycarbonyl-L-isoleucine dicyclohexylammonium salt, 98%
	H65546	N-Benzyloxycarbonyl-L-leucine N-succinimidyl ester, 95%
	H65034	N-Benzyloxycarbonyl-L-phenylalaninamide, 95%
	H65227	N-Benzyloxycarbonyl-L-phenylalanine N-succinimidyl ester, 95%
	H66858	N-Benzyloxycarbonyl-L-pyroglutamic acid N-succinimidyl ester, 95%
	H65328	N-Benzyloxycarbonyl-L-serylglycine ethyl ester, 95%
	H66376	N-Benzyloxycarbonyl-L-threonine methyl ester, 97%
	H65702	N-Benzyloxycarbonyl-L-tryptophan benzyl ester, 95%
	A10966	N-Benzyloxycarbonyl-L-tyrosine, 99%, may contain up to ca 10% water
	H63113	N-Benzyloxycarbonyl-L-tyrosine methyl ester, 98%
	H66004	N-Benzyloxycarbonyl-L-valinamide, 97%

H63253	N-Benzyloxycarbonyl-L-valine N-succinimidyl ester, 98%
H65685	N-Benzyloxycarbonyl-N-methyl-D-alanine, 95%
H65851	N-Benzyloxycarbonyl-N-methyl-DL-alanine dicyclohexylammonium salt, 95%
H65531	N-Benzyloxycarbonyl-N-methyl-D-valine, 95%
H65485	N-Benzyloxycarbonyl-N-methyl-L-valine, 95%
H66049	N-Benzyloxycarbonyl-O-benzyl-D-tyrosine, 95%
H62748	N-Benzyloxycarbonyl-O-benzyl-L-serine, 95%
H63487	N-Benzyloxycarbonyl-O-benzyl-L-tyrosine, 95%
H66787	N-Benzyloxycarbonyl-O-tert-butyl-L-threonine dicyclohexylammonium salt, 95%
H66762	N-Benzyloxycarbonyl-O-tert-butyl-L-tyrosine, 98%
H66925	N-Benzyloxycarbonyl-O-tert-butyl-L-tyrosine methyl ester, 95%
A12153	N-(Benzyloxycarbonyloxy)succinimide, 98%
H62135	N-(Benzyloxycarbonyl)sarcosine, 95%
H62435	Ndelta-Benzyloxycarbonyl-L-ornithine, 98%

Chiral

In chemistry, a molecule is considered to be chiral only if there exists another molecule that is of identical composition but has a non-superimposable mirror image. The main feature that imparts chirality in a molecule is the presence of an ôasymmetric carbon atomö. In general, a tetrahedral atom is said to be chiral when it has four different substituents. Two mirror images of a chiral molecule are known as ôenantiomers or optical isomersö. A pair of enantiomers are designated as right and left handed. The two enantiomers of such compounds have different absolute configurations at this center. This center is known as stereogenic.

Chirality of a compound is important in various areas such as selection of adjuvants in dosage form development, purchasing of an active pharmaceutical ingredient, in vitro dissolution studies, stability studies, in vitro/in vivo biological activity correlation, dossier preparation for technology transfer, ANDA/NDA applications and in scale up and post approval changes. The uses of chiral selective dissolution testing is recommended for certain drugs which exist in racemic form in order assess the performance of a product, both in vitro and in vivo. Chiral materials are used as stationary phases for the separation of enantiomeric mixtures of products. Chiral catalysts are used for the enantioselective synthesis of various organic compounds and drugs.

	H60364	(+)-1,1'-Bis[(2R,5R)-2,5-diethyl-1-phospholanyl]ferrocene, 97+%
	H60460	1,1'-Bis[(2R,5R)-2,5-diisopropyl-1-phospholanyl]ferrocene, 97+%
	H60587	1,1'-Bis[(2R,5R)-2,5-dimethyl-1-phospholanyl]ferrocene, 97+%
	H60156	1,1'-Bis[(2S,5S)-2,5-dimethyl-1-phospholanyl]ferrocene, 97+%
	H60470	(-)-1,2-Bis[(2R,5R)-2,5-diethyl-1-phospholanyl]benzene, 97+%
	H60447	(+)-1,2-Bis[(2R,5R)-2,5-diethyl-1-phospholanyl]ethane, 97+%
	H60227	1,2-Bis[(2R,5R)-2,5-diisopropyl-1-phospholanyl]benzene, 97+%
	H60071	1,2-Bis[(2R,5R)-2,5-dimethyl-1-phospholanyl]ethane, 97+%
	H60046	(-)-1,2-Bis((2R,5R)-2,5-diphenylphospholano)ethane, 95%
	H60981	(+)-1,2-Bis[(2S,5S)-2,5-diethyl-1-phospholanyl]benzene, 97+%
	H60407	1,2-Bis[(2S,5S)-2,5-diisopropyl-1-phospholanyl]benzene, 97+%
	H60017	1,2-Bis[(2S,5S)-2,5-diisopropyl-1-phospholanyl]ethane, 97+%
	H60647	1,2-Bis[(2S,5S)-2,5-dimethyl-1-phospholanyl]benzene, 97+%
	H60265	1,2-Bis[(2S,5S)-2,5-dimethyl-1-phospholanyl]ethane, 97+%

H60766	1,2-Bis[(2S,5S)-2,5-diphenyl-1-phospholanyl]ethane, 97+%
H52305	(±)-1,4-Diazabicyclo[4.4.0]decane, 98+%
H66054	1-Benzyloxycarbonyl-4-oxo-L-proline, 97%
H52416	1-Boc-D-nipecotic acid, 97%
H52575	1-Boc-L-nipecotic acid, 97%
H55419	1-Boc-L-prolinamide, 97%
H50791	1-Boc-(R)-3-(2-methoxyethoxy)pyrrolidine, 95%
H50979	1-Boc-(R)-3-ethoxypyrrolidine, 95%
H51004	1-Oxo-3-phenyl-1-(1-piperidinyl)-(2S)-propylamine
44358	(1R)-10-Camphorsulfonamide, 97%
L14059	(1R,2R)-(-)-1,2-Diaminocyclohexane, 98%
H60172	(1R,2R)-(+)-1,2-Diaminocyclohexane L-tartrate, 98%
L09558	(1R,2R)-(+)-1,2-Diphenyl-1,2-ethanediamine, 98+%
H52418	(1R,2R)-2-Aminocyclohexanecarboxylic acid, 97%
L20353	(1R,2R)-(-)-2-Benzyloxycyclohexyl isocyanate, 97%
L20316	(1R,2R)-(-)-2-Benzyloxycyclohexyl isothiocyanate, 97%
L17017	(1R,2R)-(-)-2-Benzyloxycyclopentylamine, ChiPros®, 99+%, ee 98%
L20224	(1R,2R)-(-)-2-Benzyloxycyclopentyl isocyanate, 96%
L20061	(1R,2R)-(-)-2-Benzyloxycyclopentyl isothiocyanate, 97%

H60084	(1R,2R)-(-)-2-(Diphenylphosphino)cyclohexylamine, 97+%
H56580	(1R,2R,3S,5R)-(-)-2,3-Pinanediol, 99%
H31081	(1R,2R)-Bis(4-methoxyphenyl)-1,2-ethanediamine, 98%
H52293	(1R,2R)-Cyclohexane-1,2-dicarboxylic acid, 98+%
H27704	(1R,2R)-N-Methylsulfonyl-1,2-diphenylethanediamine, 98+%
H26061	(1R,2R)-N-(p-Toluenesulfonyl)-1,2-diphenylethanediamine, 98+%
H27607	(1R,2S)-(-)-2-Amino-1,2-diphenylethanol, 99%
B21553	(1R)-(-)-Camphor-10-sulfonic acid, 98%
L14145	(1R)-(-)-Camphor-10-sulfonyl chloride, 97%
A10708	(1R)-(+)-Camphor, 98%
H51034	(1R,E)-(+)-Camphorquinone 3-oxime, 99%
L03211	(1R)-endo-(+)-Fenchyl alcohol, 96%
L14095	(1R)-(-)-Menthyl acetate, 98%
L19208	(1R)-(-)-Menthyl glyoxylate monohydrate, 98%
44361	(1S)-10-Camphorsulfonamide, 97%
H34178	(1S,2R)-1-Phenyl-2-(1-pyrrolidinyl)-1-propanol hydrochloride 97+%
H27834	(1S,2R)-(+)-2-Amino-1,2-diphenylethanol, 98%

L14072	(1S,2S)-(+)-1,2-Diaminocyclohexane, 98%
L12968	(1S,2S)-(-)-1,2-Diphenyl-1,2-ethanediamine, 97%
42183	(1S,2S)-(+)-2-Amino-1-phenyl-1,3-propanediol, 97%
H52779	(1S,2S)-2-Aminocyclohexanecarboxylic acid, 97%
L17020	(1S,2S)-(+)-2-Benzyloxycyclohexylamine, ChiPros®, 99+%, ee 99%
L20223	(1S,2S)-(+)-2-Benzyloxycyclohexyl isocyanate, 97%
L20060	(1S,2S)-(+)-2-Benzyloxycyclohexyl isothiocyanate, 97%
L17018	(1S,2S)-(+)-2-Benzyloxycyclopentylamine, ChiPros®, 99+%, ee 99%
L20225	(1S,2S)-(+)-2-Benzyloxycyclopentyl isocyanate, 95%
L20062	(1S,2S)-(+)-2-Benzyloxycyclopentyl isothiocyanate, 97%
L19065	(1S,2S)-(+)-2-Methoxycyclohexanol, 97%
H25801	(1S,2S)-Bis(4-methoxyphenyl)-1,2-ethanediamine, 98%
H52290	(1S,2S)-Cyclohexane-1,2-dicarboxylic acid, 98+%
H27867	(1S,2S)-N-Methylsulfonyl-1,2-diphenylethanediamine, 98+%
H63445	(1S,2S)-N,N'-Bis[2-(diphenylphosphino)benzyl]cyclohexane-1,2-diamine, 97%
H27006	(1S,2S)-N-(p-Toluenesulfonyl)-1,2-diphenylethanediamine
H64396	(1S,2S)-(+)-trans-1,2-Bis(methylamino)cyclohexane, 98%
H54042	(1S,3R)-(-)-Camphoric acid, 98%

L20131	(1S,4S)-(-)-2-Boc-2,5-diazabicyclo[2.2.1]heptane, 97%
H51097	(1S,4S)-(-)-2-Boc-2,5-diazabicyclo[2.2.1]heptane, 98%
A17818	(1S)-(-)-beta-Pinene, 99%
L16098	(1S)-(-)-Camphanic acid, 99%
L14148	(1S)-(-)-Camphanic chloride, 95%
A16179	(1S)-(+)-Camphor-10-sulfonic acid, 98+%(dry wt.), water <2%
A13293	(1S)-(+)-Camphor-10-sulfonyl chloride, 97%
B23469	(1S)-(-)-Camphor, 97%
B20823	(1S)-(-)-Camphorsulfonylimine, 98+%
L13987	(1S)-(+)-Menthyl acetate, 99%
L19785	(1S)-(+)-Menthyl glyoxylate monohydrate, 98%
L20078	1-Trityl-(R)-3-methylpiperazine, 98%, ee 99%
H60423	2-[(11bR)-3H-Binaphtho[2,1-c:1',2'-e]phosphepin-4(5H)-yl]ethylamine, 97+%
H50740	2-Chloro-N-(R)-(1-phenylethyl)acetamide, 97%
L06586	(2R,3R)-(-)-2,3-Butanediol, 98%
H52565	(2R,3R)-2-(Boc-amino)-3-benzyloxy-1-butanol, 97%
H52428	(2R,3R)-2-(Fmoc-amino)-3-tert-butoxy-1-butanol, 97%
H52581	(2R,3R)-3-(Boc-amino)-2-hydroxy-4-phenylbutyric acid, 97%

H52568	(2R,3R)-3-(Boc-amino)-2-hydroxy-5-methylhexanoic acid, 97%
H27448	(2R,3R)-(+)-Bis(diphenylphosphino)butane, 98%
H63420	(2R,5R)-1-[2-(1,3-Dioxolan-2-yl)phenyl]-2,5-dimethylphospholane, 97%
H60834	(2R,5R)-1-(2-[(2R,5R)-2,5-Dimethylphospholan-1-yl]phenyl)-2,5-dimethylphospholane 1-oxide, 97+%
H63491	(2S,3aS,7aS)-1-Fmoc-octahydroindole-2-carboxylic acid, 98%
H27894	(2S,3aS,7aS)-Octahydroindole-2-carboxylic acid, 98%
H52434	(2S,3S)-2-(Boc-amino)-3-benzyloxy-1-butanol, 97%
H52827	(2S,3S)-2-(Fmoc-amino)-3-tert-butoxy-1-butanol, 97%
H56001	(2S,3S)-3-(Boc-amino)-1,2-epoxy-4-phenylbutane, 98%
H52569	(2S,3S)-3-(Boc-amino)-2-hydroxy-5-methylhexanoic acid, 97%
H27586	(2S,3S)-(-)-Bis(diphenylphosphino)butane, 98%
H27321	(2S,4S)-1-Boc-4-diphenylphosphino-2-(diphenylphosphinomethyl)pyrrolidine
33668	(2S,4S)-(-)-2,4-Bis(diphenylphosphino)pentane, 99%
H60788	(2S,5S)-1-(2-[(2S,5S)-2,5-Diethyl-1-phospholanyl]phenyl)-2,5-diethylphospholane 1-oxide, 97+%

H56000	(2S)-(+)-Glycidyl p-toluenesulfonate, 99%
H52054	3-(3-Benzothienyl)-N-Fmoc-L-alanine, 95%
L12567	(3R)-(+)-3-Acetamidopyrrolidine, 98%
H27164	(3R-cis)-Tetrahydro-3-trichloromethyl-1H,3H-pyrrolo[1,2-c]oxazol-1-one, 98%
L12927	(3S)-(-)-3-Acetamidopyrrolidine, 98%
L14518	(4R)-(+)-4-Isopropyl-2-oxazolidinone, 98+%
H27766	(4S,5S)-(+)-4,5-Bis(fluoromethyl)-2,2-dimethyl-1,3-dioxolane, 90+%
A14029	(4S)-(-)-Isopropyl-2-oxazolidinone, 98%
H60821	(5R,6S)-(-)-4-Benzyloxycarbonyl-5,6-diphenyl-2-morpholinone, 98%
H60764	(5R,6S)-(-)-4-Boc-5,6-diphenyl-2-morpholinone, 98%
H60363	(5R,6S)-5,6-Diphenyl-2-morpholinone, 98%
H31676	7-Methoxy-4-methyl-2(1H)-quinolinone, 96%
L13770	Abietic acid, tech. 75%
36218	alpha-D-Lactose monohydrate, ACS
L04941	(+)-alpha-Pinene, 98%
L13980	Benzyl (R)-(-)-glycidyl ether, 98+%
H62912	Benzyl (S)-1-Boc-5-oxopyrrolidine-2-carboxylate, 98%
L14033	Benzyl (S)-(+)-glycidyl ether, 98+%

H60174	(-)-beta-Citronellol, 97%
44771	(+)-Biotin N-succinimidyl ester, 98%
H27424	(+)-Bis[(R)-1-phenylethyl]amine, ChiPros®, 99%, ee 98+%
H27106	(-)-Bis[(S)-1-phenylethyl]amine, ChiPros®, 99%, ee 98+%
44371	Calcium alpha-D-isosaccharinate, 98% (Assay)
H27345	D-2-Aminoadipic acid, 98%
L14096	D-(-)-2-Aminobutyric acid, 98+%
A16791	D-3-Bromocamphor-10-sulfonic acid monohydrate, 99%
A19886	D-3-Bromocamphor-8-sulfonic acid ammonium salt, 98%
H35096	D-(+)-3-Phenyllactic acid, 98%
H59898	D-Alanine tert-butyl ester hydrochloride, 98%
H57356	D-beta-Proline, 98+%
H57789	D-beta-Proline ethyl ester hydrochloride, 97%
H57871	D-beta-Prolinol, 95%
J63123	(+)-Dehydroabietylamine hydrochloride
A17992	(-)-Diethyl D-tartrate, 99%
A10641	(+)-Diethyl L-tartrate, 98%
A17362	(-)-Diisopropyl D-tartrate, 98%

A16941	(+)-Diisopropyl L-tartrate, 97%
H51068	(+)-Diisopropyl O,O'-bis(trimethylsilyl)-L-tartrate, 99%
L11472	Dimethyl D-tartrate, 99%
L06561	Dimethyl L-tartrate, 99%
H56938	Dimethyl trans-cyclohexane-1,4-dicarboxylate, 99%
L13223	Di-p-toluoyl-D-tartaric acid, 98%
H55860	(+)-Di-tert-butyl L-tartrate, 99%
J61871	D-Lactic acid
H57113	DL-beta-Proline ethyl ester hydrochloride, 97%
H57365	DL-beta-Proline hydrochloride, 95%
H57225	DL-beta-Prolinol, 97+%
H57434	D-Nipecotic acid, 96+%
L15983	D-(-)-Pantolactone, 99%
A11446	D-(-)-Penicillamine, 98%

H52037	(R)-3-(Fmoc-amino)-3-(2-nitrophenyl)propionic acid, 98%
H52074	(R)-3-(Fmoc-amino)-3-phenylpropionic acid, 95%
H52125	(R)-3-(Fmoc-amino)-4-(3,4-dichlorophenyl)butyric acid, 95%
L19040	(R)-(+)-3-Hydroxy-3-phenylpropionic acid, 98+%
H56847	(R)-(+)-3-Hydroxypiperidine hydrochloride, 98%
L19499	(R)-(+)-3-Hydroxypyrrolidine, 99%, ee 99%
H52743	(R)-3-Hydroxypyrrolidine hydrochloride, 97%
H56077	(R)-3-Isopropyl-2,5-dimethoxy-3,6-dihydropyrazine, 98%
L11008	(R)-(-)-3-Methyl-2-butanol, 98+%
L20241	(R)-(-)-3-Methyl-2-butyl isocyanate, 97%
L20071	(R)-(-)-3-Methyl-2-butyl isothiocyanate, 97%
H63001	(R)-4-(1-Aminoethyl)phenol, 97%
H51075	(R)-(-)-4-(3-Indolylmethyl)-2-oxazolidinone, 98%
H31076	(R)-4,4'-Bis(di-3,5-xylylphosphinoyl)-2,2',6,6'-tetramethoxy-3,3'-bipyridine
A16770	(R)-(+)-4-Benzyl-2-oxazolidinone, 99%
H62817	(R)-4-Benzyloxycarbonylamino-2-(Boc-amino)butyric acid dicyclohexylammonium salt, 98%
H62954	(R)-4-(Boc-amino)-2-(Fmoc-amino)butyric acid, 98%
H64654	(R)-4-Boc-morpholine-3-carboxylic acid, 97%

L18559	(R)-(+)-4-Chloromethyl-2,2-dimethyl-1,3-dioxolane, 98%, ee 98%
H51074	(R)-(+)-4-(Diphenylmethyl)-2-oxazolidinone, 97%
H33603	(R)-(-)-4-Fluorostyrene oxide, 98+%, ee 98+%
H66006	(R)-(+)-4-Hydroxy-2-pyrrolidinone, 97+%
L18881	(R)-(-)-4-Methyl-2-pentanol, 99%
H25953	(R)-(-)-4-Methylmandelic acid, ChiPros®, 98%, ee 97+%
B25659	(R)-(-)-4-Penten-2-ol, 95%
H27171	(R)-(-)-4-Phenyl-2-oxazolidinone, 98%
H36142	(R)-(+)-5,5',6,6',7,7',8,8'-Octahydro-1,1'-bi-2-naphthol, 98%
L18358	(R)-(-)-5-(Hydroxymethyl)-2-pyrrolidinone, 99%
L18883	(R)-(-)-6-Methyl-5-hepten-2-ol, 99%
H60538	(R)-(-)-8-Diphenylphosphino-1,2,3,4-tetrahydro-1-naphthylamine, 97+%
L09218	(R)-(+)-alpha,alpha-Diphenylprolinol, 99%
B22968	(R)-(+)-alpha-Methoxy-alpha-(trifluoromethyl)phenylacetic acid, 99%
L14325	(R)-(-)-alpha-Methoxy-alpha-(trifluoromethyl)phenylacetyl chloride, 98+%
L08719	(R)-(-)-alpha-Methoxyphenylacetic acid, 99%
L20255	(R)-(+)-beta-Hydroxy-gamma-butyrolactone, 90+%, ee 97+%
A13900	(R)-(-)-Carvone, 98%

L14198	(R)-(-)-Epichlorohydrin, 98+%
L18557	(R)-(-)-Glycidyl butyrate, 98%
H27626	(R)-(+)-Indoline-2-carboxylic acid, 97%
L04733	(R)-(+)-Limonene, 96%
A14767	(R)-(-)-Mandelic acid, 98%
L19116	(R)-(-)-Mandelic acid, ChiPros®, 99+%, ee 99+%
H56658	(R)-(+)-Mandelonitrile, 98%
22684	(R)-(-)-N-(3,5-Dinitrobenzoyl)-1-phenylethylamine
L18356	(R)-(+)-N-(3-Pentyl)-1-phenylethylamine hydrochloride, 99%
L19298	(R)-(+)-N-Benzyl-1-phenylethylamine, ChiPros®, 99+%, ee 96+%
H52020	(R)-N-Boc-1,2,3,4-tetrahydroisoquinoline-3-acetic acid, 95%
H51965	(R)-N-Boc-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid, 98%
H60062	(R)-N-Boc-2-hydroxymethylmorpholine, 99%
L18658	(R)-(-)-N-Isopropyl-1-phenyl-2-(1-piperidinyl)ethylamine, 95%

H52774	(S)-(-)-2-(Boc-amino)-3-benzyloxy-1-propanol, 97%
H51964	(S)-2-(Boc-amino)-3-(Fmoc-amino)propionic acid, 98%
H51989	(S)-2-(Boc-amino)-4-(Fmoc-amino)butyric acid, 95%
H51966	(S)-2-(Boc-amino)-4-phenylbutyric acid, 98%
H63686	(S)-2-(Boc-amino)butyric acid, 95%
H25907	(S)-(-)-2-(Boc-aminomethyl)-4,4-diethoxypiperidine fumarate
L14164	(S)-(+)-2-Butanol, 98+%
L09427	(S)-(-)-2-Chloropropionic acid, 98%
L13916	(S)-(+)-2-Dibenzylamino-3-phenyl-1-propanol, 99%
H60404	(S)-2-Diphenylphosphino-1-phenylethylamine, 97+%
H52805	(S)-2-(Fmoc-amino)-3-tert-butoxy-1-propanol, 97%
H66097	(S)-2-(Fmoc-amino)-4-aminobutyric acid, 98%
33795	(S)-(+)-2-Heptanol, 98%
L20065	(S)-(+)-2-Heptyl isothiocyanate, 98%
L10401	(S)-(+)-2-Hexanol, 98%
L20235	(S)-(+)-2-Hexyl isocyanate, 97%
L20067	(S)-(+)-2-Hexyl isothiocyanate, 95%
L08692	(S)-(+)-2-Hydroxy-2-phenylpropionic acid, 98+%

H27711	(S)-(+)-2-Indolinemethanol, 98+%
L18268	(S)-(-)-2-Isobutylsuccinic acid 1-methyl ester, 98+%, ee 98+%
L09608	(S)-(+)-2-(Methoxymethyl)pyrrolidine, 98%
H27115	(S)-(-)-2-Methyl-2-propanesulfinamide, 97%
L14063	(S)-(-)-2-Methylbutylamine, 98+%
L14583	(S)-2-Methyl-CBS-oxazaborolidine, 1M soln. in toluene
L09219	(S)-2-Methyl-CBS-oxazaborolidine monohydrate, 94%
L14429	(S)-(+)-2-Methylpiperazine, 98+%
L20075	(S)-(+)-2-Methylpiperazine, 99+%, ee 99+%
H52729	(S)-2-Methylpyrrolidine p-toluenesulfonate, 97%
L20243	(S)-(+)-2-Nonyl isocyanate, 95%
L19983	(S)-(+)-2-Nonyl isothiocyanate, 97%
L12425	(S)-(+)-2-Octanol, 99%
L20245	(S)-(+)-2-Octyl isocyanate, 95%
L19985	(S)-(+)-2-Octyl isothiocyanate, 97%
L09314	(S)-(+)-2-Pentanol, 97%
L13988	(S)-(-)-2-Phenyl-1-propanol, 98+%
L12754	(S)-(+)-2-Phenylbutyric acid, 99%

B25425	(S)-(-)-2-(Phenylcarbamoyloxy)propionic acid, 99%
L13265	(S)-(+)-2-Phenylglycinol, 98+%
L08802	(S)-(+)-2-Phenylpropionic acid, 97%
L11711	(S)-(-)-2-Pyrrolidinone-5-carboxylic acid, 98+%
H25854	(S)-(+)-2-(Trifluoromethyl)pyrrolidine, 95%
H52579	(S)-3-(1-Boc-2-piperazinylmethyl)indole, 97%
H31783	(S)-3,3'-Dibromo-2,2'-bis(methoxymethoxy)-1,1'-binaphthyl, 97%
H27342	(S)-(-)-3,3'-Di-tert-butyl-5,5',6,6'-tetramethylbiphenyl-2,2'-diol, 99%
L13334	(S)-(+)-3,4,8,8a-Tetrahydro-8a-methyl-1,6(2H,7H)-naphthalenedione, 99%
H52778	(S)-3-(4-Benzyl-2-piperazinylmethyl)indole, 97%
H63516	(S)-3-Allyloxycarbonylamino-2-(Fmoc-amino)propionic acid, 95%
H26743	(S)-(-)-3-Amino-1,2-propanediol, 98%
H58138	(S)-(+)-3-Amino-1-(benzyloxycarbonyl)pyrrolidine, 96%
H52772	(S)-3-Amino-1-benzylpiperidine, 97%

Chiral

In chemistry, a molecule is considered to be chiral only if there exists another molecule that is of identical composition but has a non-superimposable mirror image. The main feature that imparts chirality in a molecule is the presence of an ôasymmetric carbon atomö. In general, a tetrahedral atom is said to be chiral when it has four different substituents. Two mirror images of a chiral molecule are known as ôenantiomers or optical isomersö. A pair of enantiomers are designated as right and left handed. The two enantiomers of such compounds have different absolute configurations at this center. This center is known as stereogenic.

Chirality of a compound is important in various areas such as selection of adjuvants in dosage form development, purchasing of an active pharmaceutical ingredient, in vitro dissolution studies, stability studies, in vitro/in vivo biological activity correlation, dossier preparation for technology transfer, ANDA/NDA applications and in scale up and post approval changes. The uses of chiral selective dissolution testing is recommended for certain drugs which exist in racemic form in order assess the performance of a product, both in vitro and in vivo. Chiral materials are used as stationary phases for the separation of enantiomeric mixtures of products. Chiral catalysts are used for the enantioselective synthesis of various organic compounds and drugs.

H25995 (/en/catalog/H25995/)	(S,S)-1,2-Bis(2,4,6-trimethoxyphenyl)-1,2-ethanediamine dihydrochloride, 95%, ee 99%
H25992 (/en/catalog/H25992/)	(S,S)-1,2-Bis(2,4,6-trimethylphenyl)-1,2-ethanediamine dihydrochloride, 95%, ee 99%
H25986 (/en/catalog/H25986/)	(S,S)-1,2-Bis(4-acetamidophenyl)-1,2-ethanediamine dihydrochloride, 95%, ee 99%
H25970 (/en/catalog/H25970/)	(S,S)-1,2-Bis(4-nitrophenyl)-1,2-ethanediamine dihydrochloride, 95%, ee 99%
H25978 (/en/catalog/H25978/)	(S,S)-1,2-Di(2-pyridyl)-1,2-ethanediamine dihydrochloride, 95%, ee 99%
H25973 (/en/catalog/H25973/)	(S,S)-1,2-Di(3-pyridyl)-1,2-ethanediamine tetrahydrochloride, 95%, ee 99%

H63816 (/en/catalog/H63816/)	(S,S)-[2-(4-Isopropyl-2-oxazolinyl)ferrocenyl]diphenylphosphine, 97%
H60331 (/en/catalog/H60331/)	(S,S)-(+)-2-Amino-1-phenylpropyldiphenylphosphine, 97+%
H52417 (/en/catalog/H52417/)	(S,S)-3-Benzyl-1,4-diazabicyclo[4.3.0]nonane, 97%
H52432 (/en/catalog/H52432/)	(S,S)-3-Isobutyl-1,4-diazabicyclo[4.3.0]nonane, 97%
H28037 (/en/catalog/H28037/)	(S,S)-DIPAMP, 97%
L14082 (/en/catalog/L14082/)	(S,S)-(-)-Hydrobenzoin, 98+%
L08618 (/en/catalog/L08618/)	(S)-(+)-S-Methyl-S-phenylsulfoximine, 97%
H33303 (/en/catalog/H33303/)	(S,S)-N-(2,4,6-Triisopropylbenzenesulfonyl)-1,2-diphenylethanediamine, 98%
L19411 (/en/catalog/L19411/)	(S)-(-)-Tetrahydro-2-furoic acid, 98+%, ee 98%
H66392 (/en/catalog/H66392/)	(S)-(-)-Tetrahydro-3-furoic acid, 97%
L10790 (/en/catalog/L10790/)	(S)-(+)-Tetrahydrofurfurylamine, 98+%
H61655 (/en/catalog/H61655/)	tert-Butyl (S)-2-(3-amino-2-oxo-2,3,4,5-tetrahydro-1H-benzo[b]azepin-1-yl)acetate, 98%
H65284 (/en/catalog/H65284/)	tert-Butyl (S)-2-aminobutyrate hydrochloride, 95%
H60013 (/en/catalog/H60013/)	tert-Butyl (S)-(+)-3-hydroxybutyrate, 98%
H65385 (/en/catalog/H65385/)	tert-Butyl (S)-5-oxopyrrolidine-2-carboxylate, 95%
H57351 (/en/catalog/H57351/)	trans-4-(4-n-Pentylcyclohexyl)benzoic acid, 99%
H57552 (/en/catalog/H57552/)	trans-4-(4-n-Propylcyclohexyl)benzoic acid, 99%

Boc Protected Compounds

tert-Butyloxycarbonyl (Boc) is a protecting group often used in the synthesis of organic compounds. Boc is specifically used to protect amine in the solid phase synthesis of peptides (Green, T. W.; Wuts, P. G. M., *Protective Groups in Organic Synthesis,* Wiley-Interscience: New York, 1999, pp 518-525, 736-739). Cleavage of Boc from amino acids, at the last stage, is carried out with trifluroacetic acid or with hydrochloric acid. Di-tert-butyl dicarbonate (BOC-anhydride) and 4-dimethylaminopyridine (DMAP) are used to prepare Boc protected compounds in the absence of any catalyst. Selective cleavage of the Boc group in the presence of other protecting groups is possible when using $AlCl_3$. Boc protection of nitrogen is done in the synthesis of chiral imines from aldehydes. In the Mori synthesis of (-)-isostrychnine from N-tosylamine, after the reduction of the nitrile to amine, the amine is protected with Boc.

H27111	1-(1-Boc-3-azetidinyl)pyrrolidine, 94%
H63627	1-[2-(Boc-amino)ethyl]indole-6-carboxylic acid, 97%
H26741	1,4,8-Tri-Boc-1,4,8,11-tetraazacyclotetradecane
H65315	1-(4-Boc-1-piperidinyl)-4-bromopyrazole, 98%
L14644	1-Benzyl-4-Boc-piperazine, 99%
H27047	(±)-1-Benzyloxycarbonyl-4-Boc-piperazine-2-carboxylic acid, 97%
H52574	1-Boc-1,2,3,6-tetrahydropyridine, 97%
H28650	(±)-1-Boc-2-(aminomethyl)pyrrolidine, tech. 85%
H66977	1-Boc-2-cyanopiperidine, 96%
H28428	1-Boc-2-(hydroxydimethylsilyl)pyrrole, 97%
H54338	(±)-1-Boc-2-(hydroxymethyl)piperidine, 97%
H52797	1-Boc-2-phenylpiperazine, 97%
L18896	1-Boc-2-piperidone, 99%
H66437	1-Boc-2-trifluoromethyl-4-piperidone, 95%

H27422	1-Boc-3,3-difluoropyrrolidine, 98%
H28218	1-Boc-3-aminoazetidine, 94%
H29152	1-Boc-3-(aminomethyl)azetidine, 97%
H28674	1-Boc-3-(aminomethyl)pyrrolidine, 95%
H29231	(±)-1-Boc-3-aminopyrrolidine, 96%
H57112	1-Boc-3-azetidinemethanol, 95%
H50826	1-Boc-3-azetidinone, 95%
H57492	1-Boc-3-(bromomethyl)azetidine, 95%
H57071	(±)-1-Boc-3-bromopyrrolidine, 95%
H29306	1-Boc-3-cyano-4-pyrrolidinone, 97%
H28841	1-Boc-3-cyanoazetidine, 97%
H66164	1-Boc-3-cyanopiperidine, 96%
H50082	1-Boc-3-cyanopyrrolidine, 99%
H57941	1-Boc-3-(ethylamino)azetidine, 95%
H33244	1-Boc-3-fluoro-4-piperidone, 95%
H27082	1-Boc-3-fluoro-4-pyrrolidinone
H52577	1-Boc-3-hydroxy-1,2,3,6-tetrahydropyridine, 97%
H28902	1-Boc-3-hydroxyazetidine, 97%
H52784	(±)-1-Boc-3-(hydroxymethyl)piperidine, 97%

L17600	1-Boc-3-hydroxypiperidine, 97%
H28750	(±)-1-Boc-3-hydroxypyrrolidine, 97%
H52558	1-Boc-3-iodoazetidine, 97%
H64169	1-Boc-3-iodoindole-5-carbonitrile, 97%
H27022	1-Boc-3-iodoindole, 95%
H57500	1-Boc-3-(iodomethyl)azetidine, 95%
H57515	1-Boc-3-methoxyazetidine, 95%
H57951	1-Boc-3-(methylamino)azetidine, 95%
H57133	1-Boc-3-(methylaminomethyl)azetidine, 95%
H52773	1-Boc-3-(methylamino)piperidine, 97%
H57496	1-Boc-3-methylazetidine, 95%
H52809	(±)-1-Boc-3-methylpiperazine, 97%
H57725	1-Boc-3-(n-propylamino)azetidine, 95%
H27823	1-Boc-3-oxopiperazine, 98%
L19276	1-Boc-3-piperidone, 97%
H27023	1-Boc-3-pyrrolidinone, 97%
H50987	1-Boc-4-(1-pyrrolidinyl)piperidine, 97%

H63407	1-Boc-4-(2-chloro-4-nitrophenyl)piperazine, 97%
H63127	1-Boc-4-(2-chloro-6-nitrophenyl)piperazine, 97%
H33349	1-Boc-4-(2-chloroethyl)piperazine, 97%
H63340	1-Boc-4-(2-Fluoro-4-nitrophenyl)piperazine, 97%
H55966	1-Boc-4-(2-formylphenyl)piperazine, 97%
H55991	1-Boc-4-(2-hydroxyethyl)piperazine, 97%
H55302	1-Boc-4-(2-methoxycarbonylphenyl)piperazine, 97%
H63876	1-Boc-4-(2-nitrophenyl)piperazine, 97%
H55547	1-Boc-4-(3-hydroxypropyl)piperazine, 97%
H63191	1-Boc-4-(4-aminophenyl)piperazine, 97%
H63592	1-Boc-4-(4-chloro-2-nitrophenyl)piperazine, 97%
H55413	1-Boc-4-(4-formylphenyl)piperazine, 97%
H63615	1-Boc-4-(4-nitrophenyl)piperazine, 97%
H50144	1-Boc-4-(5-iodo-2-pyridyl)piperazine, 95%
H54465	1-Boc-4-(6-nitro-3-pyridyl)piperazine, 97%
H52954	1-Boc-4-chloroindole-2-boronic acid, 98%
H27580	1-Boc-4-cyanopiperidine, 96%
L19275	1-Boc-4-hydroxypiperidine, 98%

H34090	1-Boc-4-iodopiperidine, 95%
H50086	1-Boc-4-(methoxycarbonyl)pyrrolidine-3-carboxylic acid, 96%
H52576	1-Boc-4-(methylamino)piperidine, 97%
H26650	1-Boc-4-piperidinemethanol, 97%
H32102	(1-Boc-4-piperidinyloxy)acetic acid, 95%
H37525	1-Boc-4-piperidone, 97+%
L13361	1-Boc-4-piperidone, 99%
H33929	1-Boc-4-(p-toluenesulfonyloxymethyl)piperidine, 96%
H59341	1-Boc-5-bromoindoline, 97%
H52913	1-Boc-5-cyanoindole-2-boronic acid, 95%
H53019	1-Boc-5-fluoroindole-2-boronic acid, 95%
H52654	1-Boc-5-methoxyindole-2-boronic acid, 95%
H52511	1-Boc-5-(tert-butyldimethylsiloxy)indole-2-boronic acid, 98%
H32010	1-Boc-6-amino-1H-indazole, 97%
H63538	1-Boc-6-bromoindole, 97%
H53229	1-Boc-6-chloroindole-2-boronic acid, 98%
H52520	1-Boc-6-cyanoindole-2-boronic acid, 96%
H52482	1-Boc-6-methoxyindole-2-boronic acid, 98%

H52622	1-Boc-6-methylindole-2-boronic acid, 95%
H53063	1-Boc-7-methoxyindole-2-boronic acid, 98%
H34352	1-Boc-7-methyl-1,2,3,4-tetrahydro-1,8-naphthyridine, 95%
H62888	1-(Boc-amino)cyclobutanecarboxylic acid, 97%
L19483	1-(Boc-amino)cyclopentanecarboxylic acid, 98%
H61992	1-(Boc-amino)cyclopropanecarboxylic acid, 98%
H52794	1-Boc-azetidine-3-carboxaldehyde, 97%
H28817	1-Boc-azetidine-3-carboxylic acid, 97%
H52416	1-Boc-D-nipecotic acid, 97%
L17728	1-Boc-homopiperazine, 98%
L00506	1-Boc-imidazole, 98%
L18009	1-Boc-indole-2-boronic acid, 95%
L17601	1-Boc-indole, 97%
H59436	1-Boc-indoline-5-boronic acid pinacol ester, 97%

H63883	1-Boc-indoline-7-carboxylic acid, 97%
L17477	1-Boc-indoline, 98%
L17527	1-Boc-isonipecotic acid, 98+%
B25393	1-Boc-isonipecotic acid ethyl ester, 97+%
H52575	1-Boc-L-nipecotic acid, 97%
H55419	1-Boc-L-prolinamide, 97%
H62185	1-Boc-N-Fmoc-D-tryptophan, 98%
L13363	1-Boc-piperazine, 99%
H52571	1-Boc-piperidine-3-carboxaldehyde, 97%
H52813	1-Boc-piperidine-4-carboxaldehyde, 97%
L17476	1-Boc-piperidine, 98%
H53078	1-Boc-pyrrole-2-boronic acid, 96%
H64171	1-Boc-pyrrole-2-boronic acid pinacol ester, 97%
H66520	1-Boc-pyrrole-2-carbonitrile, 97%
H32786	(±)-1-Boc-pyrrolidine-2-methanol, 98%
H26222	1-Boc-pyrrolidine-3-boronic acid diethanolamine ester, 97%
H50081	1-Boc-pyrrolidine-3-carboxamide, 96%
H50080	1-Boc-pyrrolidine-3-carboxylic acid, 99%

L17475	1-Boc-pyrrolidine, 98%
H50791	1-Boc-(R)-3-(2-methoxyethoxy)pyrrolidine, 95%
H50979	1-Boc-(R)-3-ethoxypyrrolidine, 95%
H52022	(1R,3S)-(-)-3-(Boc-amino)cyclopentanecarboxylic acid, 95%
H52194	(1S,3R)-(+)-3-(Boc-amino)cyclopentanecarboxylic acid, 95%
L20131	(1S,4S)-(-)-2-Boc-2,5-diazabicyclo[2.2.1]heptane, 97%
H51097	(1S,4S)-(-)-2-Boc-2,5-diazabicyclo[2.2.1]heptane, 98%
H32069	2-(1-Boc-4-piperidinyloxy)-N-cyclopropylacetamide, 96%
H32990	2-(1-Boc-4-piperidinyloxy)-N-methylacetamide, 96%
H32708	2-(1-Boc-4-piperidinyloxy)-N,N-dimethylacetamide, 96%
H58152	2-(4-Boc-1-piperazinyl)benzamidoxime, 97%
H50058	2-(4-Boc-1-piperazinyl)pyridine-3-boronic acid pinacol ester
H52127	2-Allyl-N-Boc-D-glycine dicyclohexylamine salt, 95%
H52062	2-Allyl-N-Boc-L-glycine dicyclohexylamine salt, 95%
H63689	2-Amino-4-[2-(Boc-amino)ethyl]thiazole, 97%
H54507	2-Aminomethyl-1-Boc-piperidine, 95%
H52186	2-Benzyl-N-Boc-D-proline, 95%
H52184	2-Benzyl-N-Boc-L-proline, 95%

H63698	2-Boc-2-azabicyclo[2.2.1]hept-5-ene, 98%
L19848	2-(Boc-amino)-4-cyanopyridine, 97%
H58529	2-(Boc-amino)-4-phenylthiazole-5-carboxamidoxime, 97%
H50079	2-(Boc-amino)-5-cyanopyridine, 97%
H66291	2-(Boc-amino)-5-(pentafluoroethyl)pyridine, 96%
H50077	2-(Boc-amino)-5-pyridinemethanol, 97%
H35121	2-(Boc-amino)-6-methylpyridine, 97%
H52448	2-(Boc-amino)benzeneboronic acid, 96%
H29020	2-(Boc-amino)benzeneboronic acid pinacol ester, 97%
H32356	2-(Boc-amino)ethanol, 95%
H55211	2-(Boc-amino)ethyl bromide, 96%
H62846	2-(Boc-aminomethyl)-3-fluorobenzeneboronic acid pinacol ester, 96%
H53057	2-(Boc-aminomethyl)-4-fluorobenzeneboronic acid, 97%
H53275	2-(Boc-aminomethyl)-5-fluorobenzeneboronic acid, 96%

H61440	N-Boc-D-tyrosine, 95%
H66827	N-Boc-D-tyrosine methyl ester, 96%
H61149	N-Boc-D-valinol, 95%
H32575	N-Boc-ethylamine, 97%
L19947	N-Boc-ethylenediamine, 98%, may cont up to 5% tert-butanol
L19485	N-Boc-ethylenediamine hydrochloride, 98%
H62053	N-Boc-glycinamide, 95%
A11579	N-Boc-glycine, 98+%
H62611	N-Boc-glycine ethyl ester, 95%
H62528	N-Boc-glycine N-succinimidyl ester, 98%
H62375	N-Boc-glycine tert-butyl ester, 95%
H62889	N-Boc-glycylglycine, 97%
H62569	N-Boc-glycyl-L-leucine, 98%
H63206	N-Boc-guanidine, 95%
H55214	N-Boc-hexahydro-1H-azepin-4-one, 98%
H66868	N-Boc-iminodiacetic acid, 98%
H62604	N-Boc-L-alaninamide, 96%
H66779	N-Boc-L-alanine 4-nitrophenyl ester, 95%

H62271	N-Boc-L-alanine methyl ester, 95%
H66537	N-Boc-L-allo-threonine dicyclohexylammonium salt, 98%
H62590	N-Boc-L-aspartic acid 1-methyl ester, 98%
H62425	N-Boc-L-aspartic acid 1-tert-butyl ester, 95%
H61240	N-Boc-L-aspartic acid 4-cyclohexyl ester, 95%
H62163	N-Boc-L-aspartic acid 4-tert-butyl 1-(N-succinimidyl) ester, 95%
H63554	N-Boc-L-aspartic acid 4-tert-butyl ester, 98%
H61621	N-Boc-L-aspartic acid 4-tert-butyl ester dicyclohexylammonium salt, 95%
H52191	N-Boc-L-beta-glutamic acid 5-benzyl ester, 95%
H66336	N-Boc-L-beta-leucine, 95%
H62056	N-Boc-L-glutamic acid 1,5-dimethyl ester, 97%
H66409	N-Boc-L-glutamic acid 5-cyclohexyl ester, 95%
H62496	N-Boc-L-glutamic acid 5-methyl ester, 95%
H62545	N-Boc-L-histidine methyl ester, 95%
H66480	N-Boc-L-isoleucine N-succinimidyl ester, 95%
A10647	N-Boc-L-leucine hydrate, 99%
H66563	N-Boc-L-methionine N-succinimidyl ester, 97%
H63053	N-Boc-L-methionine sulfoxide, 98%

H66530	N-Boc-L-phenylalaninal, 97%
H66769	N-Boc-L-phenylalanine 4-nitrophenyl ester, 97%
H63078	N-Boc-L-phenylalanine methyl ester, 95%
H63788	N-Boc-L-phenylalanyl-L-phenylalanine, 95%
H26495	N-Boc-L-prolinal, 96%
H62363	N-Boc-L-proline methyl ester, 96%
H61545	N-Boc-L-threonine methyl ester, 95%
H66611	N-Boc-L-tryptophan benzyl ester, 95%
H66442	N-Boc-L-tryptophan methyl ester, 96%
H66571	N-Boc-L-tryptophanol, 95%
A10810	N-Boc-L-tyrosine, 98+%
H66559	N-Boc-L-valine N-succinimidyl ester, 97%
H50870	N-Boc-(methylamino)acetaldehyde, 97%
H66932	N-Boc-N-methyl-1,3-diaminopropane, 95%

H62670	trans-1-(Boc-amino)-3-(bromomethyl)cyclohexane, 97%
H62850	trans-1-(Boc-amino)-3-cyanocyclohexane, 97%
H62087	trans-1-(Boc-amino)-4-(2-hydroxyethyl)cyclohexane, 97%
H62469	trans-1-(Boc-amino)-4-(bromomethyl)cyclohexane, 97%
H62060	trans-1-(Boc-amino)-4-cyanocyclohexane, 97%
H62905	trans-1-(Boc-amino)-4-ethynylcyclohexane, 97%
H62487	trans-1-(Boc-amino)-4-(hydroxymethyl)cyclohexane, 97%
H62397	trans-1-(Boc-amino)-4-(N-methoxy-N-methylcarbamoyl)cyclohexane, 97%
H62078	trans-1-(Boc-amino)-4-vinylcyclohexane, 97%
H62007	trans-2-(Boc-amino)cyclohexanecarboxylic acid, 97%
H62222	trans-2-(Boc-amino)cyclopropanemethanol, 97%
H62844	trans-3-[4-(Boc-amino)cyclohexyl]propionic acid, 97%
H62902	trans-3-(Boc-amino)cyclobutanecarboxylic acid, 97%
H62719	trans-3-(Boc-amino)cyclobutanemethanol, 97%
H62207	trans-3-(Boc-amino)cyclohexanecarboxylic acid, 97%
H62934	trans-3-(Boc-amino)cyclohexanemethanol, 97%
H52566	trans-4-Amino-N-Boc-L-proline methyl ester hydrochloride, 97%
H52135	trans-4-Benzyl-N-Boc-L-proline, 95%

H62373	trans-4-(Boc-amino)cyclohexaneacetaldehyde, 97%
H62058	trans-4-(Boc-amino)cyclohexaneacetic acid, 97%
H62338	trans-4-(Boc-amino)cyclohexanecarboxaldehyde, 97%
H59402	trans-4-(Boc-amino)cyclohexanecarboxylic acid, 98%
H62062	trans-4-(Boc-amino)cyclohexanemethylamine, 97%
H62734	trans-4-(Boc-amino)cyclohexylamine, 97%
H62798	trans-4-(Boc-aminomethyl)cyclohexanemethanol, 97%
H62906	trans-4-(Boc-aminomethyl)cyclohexanemethylamine, 97%
H62564	trans-4-(Boc-aminomethyl)cyclohexylamine, 97%
H52012	trans-N-Boc-4-(2,4-dichlorobenzyl)-L-proline, 95%
H52113	trans-N-Boc-4-(2-chlorobenzyl)-L-proline, 95%
H52045	trans-N-Boc-4-(2-methylbenzyl)-L-proline, 95%
H52035	trans-N-Boc-4-(2-naphthylmethyl)-L-proline, 95%
H52118	trans-N-Boc-4-(2-propynyl)-L-proline, 95%
H52137	trans-N-Boc-4-[2-(trifluoromethyl)benzyl]-L-proline, 95%
H52094	(±)-trans-N-Boc-4-(3-bromophenyl)pyrrolidine-3-carboxylic acid, 95%
H52095	trans-N-Boc-4-(3-cyanobenzyl)-L-proline, 95%
H52030	trans-N-Boc-4-(3-fluorobenzyl)-L-proline, 95%

	H52049	(±)-trans-N-Boc-4-(3-nitrophenyl)pyrrolidine-3-carboxylic acid, 95%
	H52076	trans-N-Boc-4-[3-(trifluoromethyl)benzyl]-L-proline, 95%
	H52038	(±)-trans-N-Boc-4-(4-bromophenyl)pyrrolidine-3-carboxylic acid, 95%
	H52120	(±)-trans-N-Boc-4-(4-chlorophenyl)pyrrolidine-3-carboxylic acid, 95%
	H52021	trans-N-Boc-4-(4-fluorobenzyl)-L-proline, 95%
	H52124	trans-N-Boc-4-[4-(trifluoromethyl)benzyl]-L-proline, 95%
	H52134	(±)-trans-N-Boc-4-[4-(trifluoromethyl)phenyl]pyrrolidine-3-carboxylic acid, 95%
	H52563	trans-N-Boc-4-cyano-L-proline, 97%
	H52733	trans-N-Boc-4-cyano-L-proline methyl ester, 97%
	H52011	(±)-trans-N-Boc-4-phenylpyrrolidine-3-carboxylic acid, 95%

Fmoc Protected Compounds

Fmoc protected compounds contain the fluorenylmethoxycarbonyl group attached to the nitrogen atom of organic compounds. Fmoc chloride is a chloroformate ester, used to introduce Fmoc to amino compounds as Fmoc carbamate. A superior alternative for Fmoc protection is 9-fluorenylmethyl succinimidyl carbonate (Fmoc-OSu), also referred to as Fmoc succinimde, which prevents the formation of side products. The chemistry of Fmoc is used for the protection of the alpha amino group of amino acids. Fmoc chemistry has been shown to be more reliable for producing high quality peptides.

H58735	1-Fmoc-3-piperidinone, 96%
L19810	1-(Fmoc-amino)cyclohexanecarboxylic acid, 98+%
H57059	1-Fmoc-azetidine-3-carboxylic acid, 95%
H63915	1-Fmoc-piperidine-4-carboxylic acid, 98%
H63641	(2-[2-(Fmoc-amino)ethoxy]ethoxy)acetic acid, 95%
H66345	2-Allyl-N-Fmoc-DL-glycine, 98%
H52177	2-Allyl-N-Fmoc-L-glycine, 95%
H66424	2-Bromo-N-Fmoc-L-phenylalanine, 95%
H66258	2-Chloro-N-Fmoc-L-phenylalanine, 97%
L19809	2-(Fmoc-amino)-4-chlorobenzoic acid, 95%
H63459	2-(Fmoc-amino)benzoic acid, 98%
H62211	2-(Fmoc-amino)isobutyric acid, 98%
H52428	(2R,3R)-2-(Fmoc-amino)-3-tert-butoxy-1-butanol, 97%
H63491	(2S,3aS,7aS)-1-Fmoc-octahydroindole-2-carboxylic acid, 98%
H52827	(2S,3S)-2-(Fmoc-amino)-3-tert-butoxy-1-butanol, 97%
H52108	3-(4-Biphenylyl)-N-Fmoc-D-alanine, 95%
H52002	3-(4-Biphenylyl)-N-Fmoc-L-alanine, 95%
H52069	3,5-Difluoro-N-Fmoc-L-phenylalanine, 95%

H66237	3-Chloro-N-Fmoc-L-phenylalanine, 95%
H51815	3-(Fmoc-amino)benzamidoxime, 97%
H51823	3-(Fmoc-amino)thiobenzamide, 97%
H54874	4-[(2,4-Dimethoxyphenyl)(Fmoc-amino)methyl]phenoxyacetic acid, 98+%
H62505	4-Amino-N-Fmoc-L-phenylalanine, 98%
H66504	4-Bromo-N-Fmoc-D-phenylalanine, 95%
H51978	4-Bromo-N-Fmoc-L-phenylalanine, 95%
H52067	4-Cyano-N-Fmoc-L-phenylalanine, 95%
H51972	4-Fluoro-N-Fmoc-L-phenylalanine, 95%
H52748	4-(Fmoc-amino)-2-chlorobenzoic acid, 97%
H51824	4-(Fmoc-amino)benzamidoxime, 97%
H52828	4-(Fmoc-amino)benzoic acid, 97%
H66147	4-(Fmoc-amino)butyric acid, 95%
H66340	4-(Fmoc-aminomethyl)benzoic acid, 95%
H66266	4-(Fmoc-aminomethyl)cyclohexane-1-carboxylic acid, 98%
H51829	4-(Fmoc-amino)thiobenzamide, 97%
H52423	4-(N-Fmoc-methylamino)benzoic acid, 97%
H52789	5-(Fmoc-amino)-2-chlorobenzoic acid, 97%
H66264	5-(Fmoc-amino)valeric acid, 98%

	H63148	6-(Fmoc-amino)hexanoic acid, 98%
	H51721	6-(Fmoc-amino)nicotinamidoxime, 97%
	H66285	7-(Fmoc-amino)heptanoic acid, 95%
	H66279	8-(Fmoc-amino)octanoic acid, 95%
	H52195	L-3-(Fmoc-amino)-N-trityladipic acid 6-amide, 95%
	H62932	N,1-Di-Fmoc-L-histidine, 95%
	H66446	Nalpha-1-(4,4-Dimethyl-2,6-dioxocyclohex-1-ylidene)ethyl-Nepsilon-Fmoc-L-lysine, 98%
	H63609	Nalpha-Biotinyl-Nepsilon-Fmoc-L-lysine, 95%
	H66398	Nalpha-Fmoc-3-(Fmoc-amino)-L-alanine, 95%
	H66665	Nalpha-Fmoc-L-arginine, 95%
	H66407	Nalpha-Fmoc-L-histidine, 98%
	H62539	Nalpha-Fmoc-Ndelta-trityl-D-glutamine, 98%
	H66820	Nalpha-Fmoc-Nepsilon-[1-(4,4-dimethyl-2,6-dioxocyclohexylidene)-3-methylbutyl]-L-lysine, 95%

H63003	N-Fmoc-S-trityl-L-cysteine pentafluorophenyl ester, 98%
H52168	O-Benzylphospho-N-Fmoc-L-serine, 95%
H52065	O-tert-Butyl-N-Fmoc-L-beta-homoserine, 95%
H52192	O-tert-Butyl-N-Fmoc-L-beta-homotyrosine, 95%
H57732	(R)-(-)-1-Fmoc-3-pyrrolidinol, 95%
H66328	(R)-(+)-1-Fmoc-4-oxopiperidine-2-carboxylic acid, 97%
H52728	(R)-2-(Fmoc-amino)-3-tert-butoxy-1-propanol, 97%
H66094	(R)-2-(Fmoc-amino)-4-aminobutyric acid, 95%
H63923	(R)-2-(Fmoc-amino)butyric acid, 98%
H52037	(R)-3-(Fmoc-amino)-3-(2-nitrophenyl)propionic acid, 98%
H52074	(R)-3-(Fmoc-amino)-3-phenylpropionic acid, 95%
H52125	(R)-3-(Fmoc-amino)-4-(3,4-dichlorophenyl)butyric acid, 95%
H57321	(S)-(+)-1-Fmoc-3-pyrrolidinol, 95%
H66428	(S)-(-)-1-Fmoc-4-oxopiperidine-2-carboxylic acid, 97%
H66073	(S)-2,4-Bis(Fmoc-amino)butyric acid, 95%
H52805	(S)-2-(Fmoc-amino)-3-tert-butoxy-1-propanol, 97%
H66097	(S)-2-(Fmoc-amino)-4-aminobutyric acid, 98%
H56852	(S)-2-(Fmoc-amino)butyric acid, 98%

	H63516	(S)-3-Allyloxycarbonylamino-2-(Fmoc-amino)propionic acid, 95%
	H52101	(S)-3-(Fmoc-amino)-3-(2-nitrophenyl)propionic acid, 95%
	H66629	(S)-3-(N-Fmoc-L-leucinyl)-2,2-dimethyloxazolidine-4-carboxylic acid, 95%
	H51975	(S)-N-Fmoc-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid, 95%
	H63582	trans-4-Benzyloxy-N-Fmoc-L-proline, 98%
	H52740	trans-N-Fmoc-4-hydroxy-L-proline, 97%
	H63791	trans-N-Fmoc-4-tert-butoxy-L-proline, 98%

Bsmoc Protected Compounds

Bsmoc, 1,1-Dioxobenzo[b]thiophene-2-ylmethyloxycarbonyl, is a base-sensitive amino protecting group for both solid and rapid continuous solution synthesis. Bsmoc does not suffer from the competitive or premature de-blocking observed with other systems because of steric hindrance (Carpino, L. A.; Ismail, M.; Truran, G. A.; Mansour, E. M. E.; Iguchi, S.; Ionescu, D.; El-Faham, A.; Riemer, C.; Warrass, R. The 1,1-Dioxobenzo[b]thiophene-2-ylmethyloxycarbonyl (Bsmoc) Amino-Protecting Group. *J. Org. Chem.,* **1999,** *64,* 4324-4338). Bsmoc-protected amino acids are used in peptide synthesis. De-blocking of Bsmoc in peptide synthesis is done using a weak base such as insoluble piperazino silica as well as the polyamine, TAEA [tris-(2-aminomethyl)amine]. Deblocking with a weaker base or dilute base makes Bsmoc chemistry attractive compared to Fmoc chemistry, as base sensitive peptide units can be used without much contamination due to aminosuccinimide formation. Carbamate and ester derivatives of Bsmoc react readily with thiols via Micheal addition. Ureidopeptides can be prepared efficiently from the reaction of isocyanates derived from Bsmoc-alpha-amino acids with amino acid esters (Babu, V. V. S.; Sudarshan, N. S.; Naik, S. A. Synthesis of Ureidopeptides and Peptidyl Ureas Employing Bsmoc Chemistry. *Int. J. Peptide Res. and Therap.,* **2008,** *14,* 105-112).

	L19733	1,1-Dioxobenzo[b]thiophen-2-ylmethyl N-succimidyl carbonate, 95%
	L19737	N-Bsmoc-glycine, 99%
	L19734	N-Bsmoc-L-2-aminobutyric acid, 99%
	L19736	N-Bsmoc-L-asparagine, 98%
	L19740	N-Bsmoc-L-methionine, 99%
	L19741	N-Bsmoc-L-phenylalanine, 97%
	L19742	N-Bsmoc-L-proline, 99%
	L19743	N-Bsmoc-L-tryptophan, 97%
	L19744	N-Bsmoc-L-valine, 99%

ChiPros

In the field of chemical research and agricultural industries, chiral molecules play a very extensive role of making chirally optically active drugs and compounds. A wide range of functional group-based chiral products such as chiral amines, chiral alcohols, chiral epoxides, chiral acids, and other chiral product groups have been identified and synthesized.

Chiral molecules of active pharmaceutical drugs and intermediates possess dramatically different biological activities. Although they have the same chemical structure as the racemic compound, most isomers of chiral drugs exhibit marked differences in biological activities such as pharmacology, toxicology, pharmacokinetics, and metabolism. There is a huge number of chiral drugs and the trend is increasing. A few examples are rifampicin (bactericidal antibiotic drug), indinavir (it is a protease inhibitor used as a component of highly active antiretroviral therapy), and esomeprazole (proton pump inhibitor). In addition to other applications, chiral enzymes are used to separate two enantiomers of a chiral substrate.

L17017	(1R,2R)-(-)-2-Benzyloxycyclopentylamine, ChiPros®, 99+%, ee 98%
L17020	(1S,2S)-(+)-2-Benzyloxycyclohexylamine, ChiPros®, 99+%, ee 99%
L17018	(1S,2S)-(+)-2-Benzyloxycyclopentylamine, ChiPros®, 99+%, ee 99%
L19065	(1S,2S)-(+)-2-Methoxycyclohexanol, 97%
H27424	(+)-Bis[(R)-1-phenylethyl]amine, ChiPros®, 99%, ee 98+%
H27106	(-)-Bis[(S)-1-phenylethyl]amine, ChiPros®, 99%, ee 98+%
L19300	(R)-(+)-1-(1-Naphthyl)ethylamine, ChiPros®, 99+%, ee 98+%
L17021	(R)-(-)-1,2,3,4-Tetrahydro-1-naphthylamine, ChiPros® 99+%, ee 98+%
H27669	(R)-1-(2-Methoxyphenyl)ethylamine, ChiPros®, 99%, ee 98+%
L17023	(R)-(+)-1-(2-Naphthyl)ethylamine, ChiPros®, 99+%, ee 99+%
H27636	(R)-1-(3-Bromophenyl)ethylamine, ChiPros®, 99%, ee 98+%
H27461	(R)-1-(3-Chlorophenyl)ethylamine, ChiPros®, 99%, ee 98+%
L16323	(R)-(+)-1-(3-Methoxyphenyl)ethylamine, ChiPros®, 99+%, ee 98%
L20079	(R)-(+)-1-(4-Bromophenyl)ethylamine, ChiPros®, 99%, ee 98%

	L19119	(R)-(+)-1-(4-Chlorophenyl)ethylamine, ChiPros® 97%, ee 98%
	L19120	(R)-(+)-1-(4-Fluorophenyl)ethylamine, ChiPros®, 99%, ee 98%
	L16321	(R)-(+)-1-(4-Methoxyphenyl)ethylamine, ChiPros®, 99+%, ee 99+%
	L16328	(R)-(+)-1-(4-Methylphenyl)ethylamine, ChiPros®, 98+%, ee 98%
	L19051	(R)-(-)-1-Cyclohexylethylamine, ChiPros®, 98%, ee 94+%
	H26902	(R)-1-Cyclopropylethylamine, ChiPros®, 98%, ee 98+%
	L19296	(R)-(+)-1-Phenylethanol, 99%, ee 97+%
	L19117	(R)-(+)-1-Phenylethylamine, 99+%
	L16319	(R)-(+)-1-Phenylpropylamine, ChiPros®, 99+%, ee 98%
	L16330	(R)-(-)-2-Amino-3-methylbutane, ChiPros®, 98%, ee 97%
	L19304	(R)-(-)-2-Aminohexane, ChiPros®, 99+%, ee 96+%
	L19310	(R)-(-)-2-Aminononane, ChiPros®, 99+%, ee 98+%
	L19308	(R)-(-)-2-Aminooctane, 98+%, ee 98+%
	L19586	(R)-(-)-2-Chloromandelic acid, ChiPros®, 99+%, ee 99+%
	H25953	(R)-(-)-4-Methylmandelic acid, ChiPros®, 98%, ee 97+%
	L19116	(R)-(-)-Mandelic acid, ChiPros®, 99+%, ee 99+%
	L19298	(R)-(+)-N-Benzyl-1-phenylethylamine, ChiPros®, 99+%, ee 96+%
	L19301	(S)-(-)-1-(1-Naphthyl)ethylamine, ChiPros®, 99+%, ee 99+%
	L17022	(S)-(+)-1,2,3,4-Tetrahydro-1-naphthylamine, ChiPros® 99+%, ee 99%

H26948	(S)-1-(2-Methoxyphenyl)ethylamine, ChiPros®, 99%, ee 98+%
L17024	(S)-(-)-1-(2-Naphthyl)ethylamine, ChiPros®, 99+%, ee 99+%
H26998	(S)-1-(3-Bromophenyl)ethylamine, ChiPros® 99%, ee 98+%
H27637	(S)-1-(3-Chlorophenyl)ethylamine, ChiPros®, 98%, ee 98+%
L16324	(S)-(-)-1-(3-Methoxyphenyl)ethylamine, ChiPros®, 99+%, ee 99+%
L20080	(S)-(-)-1-(4-Bromophenyl)ethylamine, ChiPros®, 99%, ee 98%
H66715	(S)-(-)-1-(4-Chlorophenyl)ethylamine, ChiPros® 94%
L19052	(S)-(-)-1-(4-Chlorophenyl)ethylamine, ChiPros® 97%, ee 98%
L19121	(S)-(-)-1-(4-Fluorophenyl)ethylamine, ChiPros®, 99%, ee 99%
L16322	(S)-(-)-1-(4-Methoxyphenyl)ethylamine, ChiPros®, 99+%, ee 98%
L16329	(S)-(-)-1-(4-Methylphenyl)ethylamine, ChiPros®, 98%, ee 99+%
H27499	(S)-1-Cyclopropylethylamine, ChiPros®, 98%, ee 98+%
L16325	(S)-(+)-1-Methoxy-2-propylamine, ChiPros®, 98+%, ee 96+%
L19118	(S)-(-)-1-Phenylethylamine, ChiPros 99+%, ee 99.5%
L16320	(S)-(-)-1-Phenylpropylamine, ChiPros®, 99+%, ee 99%
L16332	(S)-(+)-2-Amino-3-methylbutane, ChiPros®, 98+%, ee 99%
L19307	(S)-(+)-2-Aminoheptane, ChiPros®, 99%, ee 99+%

	L19305	(S)-(+)-2-Aminohexane, ChiPros®, 99+%, ee 99+%
	L19311	(S)-(+)-2-Aminononane, ChiPros®, 99+%, ee 99+%
	L19309	(S)-(+)-2-Aminooctane, ChiPros® 99+%, ee 99+%
	L19299	(S)-(-)-N-Benzyl-1-phenylethylamine, ChiPros®, 99%, ee 99+%

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Россия +7(495)268-04-70 Казахстан +7(7172)727-132 Киргизия +996(312)96-26-47

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