



## INTERMEDIATES & SIDE CHAINS

Sr No	Intermediate	CAS No	End Use
1	<b>CDCA (Chenodeoxycholic acid)</b> 3 $\alpha$ , 7 $\alpha$ -Dihydroxy-5 $\beta$ -cholanic acid, 5 $\beta$ -cholanic acid-3 $\alpha$ ,7 $\alpha$ -diol	474-25-9	Ursodeoxycholic acid
2	<b>7-KLCA (7-Ketolithocholic acid)</b> 3 $\alpha$ -Hydroxy-7-oxo-5-beta-cholan-24-oic acid	4651-67-6	Ursodeoxycholic acid and Obeticholic acid
3	<b>Boc CK</b> (S)-tert-butyl (4-chloro-3-oxo-1-phenylbutan-2-yl)carbamate Or (3S)-3-(tert-Butoxycarbonyl)amino-1-chloro-4-phenyl-2-butanone	102123-74-0	Darunavir, Atazanavir
4	<b>Boc CA</b> (2S, 3S)-3-t-butoxycarbonylamino-1-chloro-4-phenyl-2-butanol	165727-45-7	Darunavir
5	<b>S,S-epoxide</b> (2S, 3S)-1,2-Epoxy-3-(Boc-amino)-4-phenylbutane	98737-29-2	Darunavir
6	<b>Boc Amine</b> Tert-butyl ((2S, 3R)-3-hydroxy-4-(isobutylamino)-1-phenylbutan-2-yl)carbamate Or (2R, 3S)-3-tert-butoxycarbonylamino-1-isobutylamino-4-phenyl-2-butanol	160232-08-6	Darunavir
7	<b>Boc Nitro</b> t-butyl (2R, 3S)-2-hydroxy-1-[(2-methylpropyl)[(4-nitrophenyl)sulfonyl]amino]-4-phenylbutan-3-ylcarbamate	191226-98-9	Darunavir
8	<b>Amino Sulphonamide Compound</b> 4-Amino-N-((2R, 3S)-3-amino-2-hydroxy-4-phenylbutyl)-N-isobutylbenzene sulfonamide	169280-56-2	Darunavir
9	<b>Boc-R,S-Alcohol</b> (2R, 3S)-3-[N-(tert-butyloxycarbonyl)amino]-1-chloro-4-phenylbutane-2-ol	162536-40-5	Atazanavir
10	<b>R,S-Epoxyde</b> (2R, 3S)-3-[N-(tert-butyloxycarbonyl)amino]-1,2-epoxy-4-phenylbutane	98760-08-8	Atazanavir
11	<b>MOC-L-tert-Leucine</b> N-Methoxycarbonyl-L-tert-leucine	162537-11-3	Atazanavir
12	<b>ATS-5 (HN-2)</b> (R)-4-Cyano-3-hydroxybutyric acid ethyl ester	141942-85-0	Atorvastatin Calcium
13	<b>ATS-8 (TBIN)</b> (4R,cis)-1,1-Dimethylethyl-6-cyanomethyl-2,2-dimethyl-1,3-dioxane-4-acetate	125971-94-0	Atorvastatin Calcium
14	<b>ATS-9</b> (4R,cis)-1,1-Dimethylethyl-6-aminoethyl-2,2-dimethyl-1,3-dioxane-4-acetate	125995-13-3	Atorvastatin Calcium



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15	<b>ATV-1</b> tert-Butyl (4R, 6R)-2-[[[6-(2-4-fluorophenyl)-5-isopropyl-3-phenyl-4-(phenylcarbamoyl)-pyrrol-1-yl]ethyl]-2,2-dimethyl-1,3-dioxan-4-yl]acetate	125971-95-1	Atorvastatin Calcium
16	<b>DKT3</b> 4-Fluoro- $\alpha$ -(2-methyl-1-oxopropyl)- $\gamma$ -oxo-N, $\beta$ -diphenyl benzene butanamide	125971-96-2	Atorvastatin Calcium
17	<b>NFHDA</b> N-Formyl hexamethylenimine dimethyl acetal	32895-16-2	Mecillinam Pivmecillinam
18	<b>D-5/ BHA-4</b> tert-Butyl (4R-cis)-6-[(acetyloxy)methyl]-2,2-dimethyl-1,3-dioxane-4-acetate	154026-95-6	Rosuvastatin
19	<b>CMIC Chloride</b> 3-(2-Chlorophenyl)-5-methyl isoxazole-4-carbonyl chloride	25629-50-9	Cloxacillin
20	<b>DCIMC Chloride</b> 3-(2,6 Dichlorophenyl)-5-methyl isoxazole-4-carbonyl chloride	4462-55-9	Dicloxacillin
21	<b>FCIMC Chloride</b> 3-(2-Chloro-6-fluorophenyl)-5-methyl isoxazole-4-carbonyl chloride	69399-79-7	Flucloxacillin
22	<b>PMIC Chloride</b> 3-Phenyl-5-methyl isoxazole-4-carbonyl chloride	16883-16-2	Oxacillin
23	<b>Clopidogrel base</b> S-(2-Chloro-phenyl)-(6,7-dihydro-4H-thieno[3,2-c]pyridin-5-yl)-acetic acid methyl ester	113665-84-2	Clopidogrel
24	<b>ENC</b> 2-Ethoxy naphthalene-1-carbonyl chloride	55150-29-3	Nafcillin
25	<b>(SABAM HCl)</b> S(+)-2-Aminobutyramide hydrochloride	7682-20-4	Levetiracetam

Note : All transactions are carried out in conformity with patent laws applicable in the buyer's country. Responsibility with respect to third party patent rights in a specific country lies exclusively with the buyer.