



PHARMACEUTICAL INTERMEDIATES

API Name	CAS No.	Intermediate
Sitagliptin	209995-38-0	2,4,5-Trifluorophenylacetic acid
	764667-65-4	(2Z)-4-Oxo-4-[3-(trifluoromethyl)-5,6-dihydro-[1,2,4]triazolo[4,3-a]pyrazine-7(8H)-yl]-1-(2,4,5-trifluorophenyl)butan-2-one
	155830-69-6	(R)-(-)-[(S)-2-(Diphenylphosphino(ferrocenyl)ethyl)di-t-butylphosphine
	12092-47-6	Chloro(1,5-cyclooctadiene)rhodium(I) dimer
	762240-92-6	3-trifluoro methyl-[1,2,4]triazole[4,3-a]piperazine hydrochloride
	486460-32-6	(3R)-3-Amino-1-[3-(trifluoromethyl)-5,6,7,8-tetrahydro-1,2,4-triazolo[4,3-a]pyrazin-7-yl]-4-(2,4,5-trifluorophenyl)butan-1-one
	654671-78-0	Sitagliptin Phosphate
Vidagliptin	702-82-9	3-Amino-adamantan-1-ol
	207557-35-5	(2S)- 1-(Chloroacetyl)-2-pyrrolidinecarbonitrile
Alogliptin	865758-96-9	2-[(6-Chloro-3,4-dihydro-3-methyl-2,4-dioxo-1(2H)-pyrimidinyl)methyl]benzotrile
Trelagliptin	865759-24-6	2-((6-chloro-3-Methyl-2,4-dioxo-3,4-dihydropyrimidin-1(2H)-yl)Methyl)-4-fluorobenzo
	865759-25-7	Trelagliptin
Linagliptin	668273-75-4	[(3R)-1-[7-(2-Butynyl)-2,3,6,7-tetrahydro-3-methyl-1-[(4-methyl-2-quinazoliny)methyl]-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]carbamic acid 1,1-dimethylethyl este
	109113-72-6	2-(Chloromethyl)-4-methylquinazoline
	853029-57-9	8-Bromo-7-but-2-ynyl-3-methyl-1-(4-methyl-quinazolin-2-ylmethyl)-3,7-dihydro-purine-2,6-dione
	93703-24-3	8-Bromo-3-methyl-3, 7-dihydropurine—2,6-dtone
	334618-23-4	(R)-3-Aminopiperidine dihydrochloride
	309956-78-3	(R)-3-(Boc-Amino)piperidine
	666816-98-4	8-bromo-7-but-2-yn-1-yl-3-methyl-3,7-dihydro-1H-purine-2,6-dione
Ipragliflozin	32384-65-9	2,3,4,6-Tetrakis-O-trimethylsilyl-D-gluconolactone
	1034305-11-7	alpha-(5-Bromo-2-fluorophenyl)benzo[b]thiophene-2-methanol
	1034305-17-3	2-(5-Bromo-2-fluorobenzyl)benzothiophene
	1034305-27-5	Methyl 2,3,4,6-tetra-O-acetyl-1-C-[3-(1-benzothien-2-ylmethyl)-4-fluorophenyl]-alpha-glucopyranoside
	1034305-21-9	(1S)-1,5-Anhydro-1-C-[3-(benzo[b]thien-2-ylmethyl)-4-fluorophenyl]-D-glucitol 2,3,4,6-tetraacetate
	761423-87-4	Ipragliflozin



API Name	CAS No.	Intermediate
Dapagliflozin	32384-65-9	(3R,4S,5R,6R)-3,4,5-Tris((trimethylsilyl)oxy)-6-(((trimethylsilyl)oxy)methyl) tetrahydro-2H-pyran-2-one
	461432-22-4	(5-Bromo-2-chlorophenyl)(4-ethoxyphenyl)methanone
	461432-23-5	5-bromo-2-chloro-4'-ethoxydiphenylmethane
	461432-24-6	Methyl 1-C-[4-chloro-3-[(4-ethoxyphenyl)methyl]phenyl]-D-glucopyranoside
	461432-25-7	(1S)-1,5-Anhydro-1-C-[4-chloro-3-[(4-ethoxyphenyl)methyl]phenyl]-D-glucitol tetraacetate
	960494-15-9	(3R,4S,5R,6R)-2-(4-chloro-3-(4-ethoxybenzyl)phenyl)-3,4,5-tris-trimethylsilyloxy-6-trimethylsilyloxymethyl-tetrahydro-pyran-2-ol
	461432-28-0	(3R,4S,5R,6R)-6-(acetoxymethyl)-2-(4-chloro-3-(4-ethoxybenzyl)phenyl)-2-methoxytetrahydro-2H-pyran-3,4,5-triyl triacetate
Empagliflozin	21739-92-4	5-Bromo-2-chlorobenzoic acid
	915095-85-1	(5-Bromo-2-chlorophenyl)(4-fluorophenyl)methanone
	915095-84-0	(5-Bromo-2-chlorophenyl)[4-[[[(3S)-tetrahydro-3-furanyl]oxy]phenyl]methyl]methanone
	915095-89-5	(3S)-3-[4-[(5-Bromo-2-chlorophenyl)methyl]phenoxy]tetrahydro-furan
	1279691-36-9	Methyl 1-C-[4-chloro-3-[[4-[[[(3S)-tetrahydro-3-furanyl]oxy]phenyl]methyl]phenyl]-alpha-D-glucopyranoside
	915095-94-2	(3S)-3-[4-[(2-Chloro-5-iodophenyl)methyl]phenoxy]tetrahydro-furan
	915095-99-7	(1S)-1,5-Anhydro-1-C-[4-chloro-3-[[4-[[[(3S)-tetrahydro-3-furanyl]oxy]phenyl]methyl]phenyl]-D-glucitol tetraacetate
	19094-56-5	2-Chloro-5-iodobenzoic acid
	915095-86-2	(2-Chloro-5-iodophenyl)(4-fluorophenyl)methanone
	86087-23-2	S-3-Hydroxytetrahydrofuran
	915095-87-3	(2-Chloro-5-iodophenyl)[4-[[[(3S)-tetrahydro-3-furanyl]oxy]phenyl]methyl]methanone
32384-65-9	(3R,4S,5R,6R)-3,4,5-Tris((trimethylsilyl)oxy)-6-(((trimethylsilyl)oxy)methyl) tetrahydro-2H-pyran-2-one	
Ertugliflozin	1528636-39-6	(2S,3R,4S,5S)-2-(4-chloro-3-(4-ethoxybenzyl)phenyl)-6,6-bis(hydroxymethyl)-2-methoxytetrahydro-2H-pyran-3,4,5-triol
Canagliflozin	1358581-37-9	(2S,3R,4S,5S,6R)-2-(3-((5-(4-Fluorophenyl)thiophen-2-yl)methyl)-4-methylphenyl)-6-(hydroxymethyl)-2-methoxytetrahydro-2H-pyran-3,4,5-triol
	866607-35-4	(1S)-1,5-Anhydro-1-C-[3-[[5-(4-fluorophenyl)-2-thienyl]methyl]-4-methylphenyl]-D-glucitol tetraacetate
Imeglimin	757178-57-7	N2,N2,6-trimethyl-1,6-dihydro-1,3,5-triazine-2,4-diamine



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Sotagliflozin	1103738-30-2	(4-Chloro-3-(4-ethoxybenzyl)phenyl)((3aS,5R,6S,6aS)-6-hydroxy-2,2-dimethyltetrahydrofuro[2,3-d][1,3]dioxol-5-yl)methanone
	1018899-03-0	(2S,3S,4R,5S,6R)-2-(4-Chloro-3-(4-ethoxybenzyl)phenyl)-6-(methylthio)tetrahydro-2H-pyran-3,4,5-triyl triacetate
Finerenone	95306-64-2	4-amino-5-methylpyridin-2(1H)-one
	1870824-80-8	2-cyanoethyl (E,Z)-2-(4 -cyano-2-methoxybenzylidene)-3-oxobutanoate
	1050477-43-4	2-cyanoethyl 4-(4-cyano-2-methoxyphenyl)-2,8-dimethyl-5-oxo-1,4,5,6-terahydro-1,6-naphthyridine-3-carboxylate
	1050477-44-5	2-cyanoethyl 4-(4-cyano-2-methoxyphenyl)-5-ethoxy-2,8-dimethyl-1,4-dihydro-1,6-naphthyridine-3-carboxylate
	1050477-45-6	4-(4-cyano-2-methoxyphenyl)-5-ethoxy-2,8-dimethyl-1,4-dihydro-1,6-naphthyridine-3-carboxylic acid
Ivabradine	866783-13-3	(1S)-4,5-Dimethoxy-1-[(methylamino)methyl]benzocyclobutane hydrochloride
	35202-54-1	4,5-Dimethoxy-1-cyanobenzocyclobutane
	73942-87-7	7,8-Dimethoxy-1,3-dihydro-2H-3-benzazepin-2-one
	85175-59-3	7,8-dimethoxy-3-(3-chloropropyl)-1,3-dihydro-2H-3-benzazepin-2-one
	148870-57-9	1,3-Dihydro-3-(3-iodopropyl)-7,8-dimethoxy-2H-3-benzazepin-2-one
Levosimendan	63514-63-6	N-[4-(2-bromopropanoyl)phenyl]acetamide
	36725-28-7	6-(4-Aminophenyl)-5-methyl-4,5-dihydropyridazin-3(2H)-one
Daclatasvir	787-69-9	4,4'-Diacetylbiphenyl
	4072-67-7	4,4'-Bis(2-bromoacetyl)biphenyl
	1007882-23-6	(2S,2'S)-2,2'-([1,1'-Biphenyl]-4,4'-diyldi-1H-imidazole-5,2-diyl)bis-1-pyrrolidinecarboxylic acid 1,1'-bis(1,1-dimethylethyl) ester
Velpatasvir	1378391-42-4	(2S,4S)-4-(Methoxymethyl)-1,2-pyrrolidinedicarboxylic acid 2-[2-(9-bromo-8,9,10,11-tetrahydro-8-oxo-5H-benzo[d]naphtho[2,3-b]pyran-3-yl)-2-oxoethyl] 1-(1,1-dimethylethyl) ester
	1378391-43-5	1-tert-Butyl-2-[2-[9-[[[(2S,5S)-1-[(S)-2-(methoxycarbonylamino)-3-methylbutanoyl]-5-methylpyrrolidin-2-yl]carbonyl]oxy]-8-oxo-8,9,10,11-tetrahydro-5H-dibenzo[c,g]chromen-3-yl]-2-oxoethyl] (2S,4S)-4-(methoxymethyl)pyrrolidine-1,2-dicarboxylate
	1378391-44-6	tert-Butyl(2S,4S)-2-[5-[2-[(2S,5S)-1-[N-(methoxycarbonyl)-L-valyl]-5-methylpyrrolidin-2-yl]-1,4,5,11-tetrahydroisochromeno[4',3':6,7]naphtho[1,2-d]imidazol-9-yl]-1H-imidazol-2-yl]-4-(methoxymethyl)pyrrolidine-1-carboxylate
	1378391-45-7	(2S,4S)-2-[5-[1,11-Dihydro-2-[(2S,5S)-1-[(2S)-2-[(methoxycarbonyl)amino]-3-methyl-1-oxobutyl]-5-methyl-2-pyrrolidinyl][2]benzopyrano[4',3':6,7]naphth[1,2-d]imidazol-9-yl]-1H-imidazol-2-yl]-4-(methoxymethyl)-1-pyrrolidinecarboxylic acid 1,1-dimethylethyl ester



API Name	CAS No.	Intermediate
Bendamustine	3543-74-6	5-[Bis(2-hydroxyethyl)amino]-1-methyl-1H-benzimidazole-2-butanoic acid ethyl ester
Dapoxetine	82769-76-4	(S)-3-Amino-3-phenylpropan-1-ol
	100306-33-0	(1R)-3-Chloro-1-phenyl-propan-1-ol
Amoxicillin	551-16-6	6-Aminopenicillanic acid (6-APA)
Lifitegrast	1194550-65-6	Benzyl(S)-2-(5,7-dichloro-1,2,3,4-tetrahydroisoquinoline-6-carboxamido)-3--(3-(methylsulfonyl)phenyl)propanoatehydrochloride
	1194550-67-8	Benzyl(S)-2-(2-(benzofuran-6-carbonyl)-5,7-dichloro-1,2,3,4-tetrahydroisoquinoline-6-carboxamido)-3-(3-(methylsulfonyl)phenyl)propanoate
Vardenafil	224789-26-8	4-Ethoxy-3-(5-methyl-4-oxo-7-propyl-1,4-dihydroimidazo[5,1-f][1,2,4]triazin-2-yl)benzene-1-sulfonyl chloride
	18637-00-8	2-Ethoxybenzimidamidehydrochloride
	59875-04-6	2-Butyrylaminopropionicacid
	927690-90-2	N-1-[3-(2-ethoxyphenyl)-5-oxo-4,5-dihydro-1,2,4-triazine-6-yl]ethylbutanamide
Niraparib tosylate	1476776-76-7	N-tert-butyl-1H-indazole-7-carboxamide
	41841-16-1	Methyl 4-bromophenylacetate
Rivaroxaban	446292-07-5	2-[(2R)-2-Hydroxy-3-[[4-(3-oxomorpholin-4-yl)phenyl]amino]propyl]-1H-isoindole-1,3(2H)-dione
	446292-08-6	2-([(5S)-2-Oxo-3-[4-(3-oxomorpholin-4-yl)phenyl]-1,3-oxazolidin-5-yl]methyl)-1H-isoindole-1,3(2H)-dione
	898543-06-1	4-[4-[(5S)-5-(Aminomethyl)-2-oxo-3-oxazolidinyl]phenyl]-3-morpholinone hydrochloride
Upadacitinib	1428243-26-8	(3R,4S)-3-(2-Bromoacetyl)-4-ethyl-1-pyrrolidinecarboxylic acid phenylmethyl ester
	1201186-54-0	2-Bromo-5-tosyl-5H-pyrrolo[2,3-b]pyrazine
	2050038-78-1	[2-[(3R,4S)-4-ethyl-1-[(phenylmethoxy)carbonyl]-3-pyrrolidinyl] 2-oxoethyl] dimethyl-Sulfoxonium inner salt
	1201187-44-1	N-[5-[(4-Methylphenyl)sulfonyl]-5H-pyrrolo[2,3-b]pyrazin-2-yl]carbamic acid 1,1-dimethylethyl ester
Topiroxostat	135048-32-7	2-Cyanoisonicotinohydrazide
	1841081-71-7	2-Cyano-N'-(imino(pyridin-4-yl)ethyl)isonicotinohydrazide



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Ozagrel	946-99-6	Methyl 3-(4-bromomethyl)cinnamate
Enarodustat	34420-17-2	Phenethylboronic acid
	1044872-40-3	2-Amino-4,6-dichloro-nicotinicacidmethylester
Ilaprazole	2818-66-8	5-Amino-2-benzimidazolethiol
	86604-74-2	2-(Chloromethyl)-4-methoxy-3-methylpyridine hydrochloride
Linzagolix	62947-31-3	Dimethyl 4-aminothiophene-2,3-dicarboxylate
	1073435-67-2	2,3-Difluoro-6-methoxybenzyl Chloride
Baricitinib	1029716-44-6	1-(1-ethoxyethyl)-4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1H-pyrazole
	1146629-75-5	(4-Chloro-7H-pyrrolo[2,3-d]pyrimidin-7-yl)methyl pivaate
Apixaban	545445-44-1	5,6-Dihydro-3-(4-morpholinyl)-1-[4-(2-oxo-1-piperidinyl)phenyl]-2(1H)-pyridinone
	503614-91-3	Ethyl 1-(4-methoxyphenyl)-7-oxo-6-(4-(2-oxopiperidin-1-yl)phenyl)-4,5,6,7-tetrahydro-1H pyrazolo[3,4-c]pyridine-3-carboxylate
Afoxolaner	1125812-58-9	1-[3-Chloro-5-trifluoromethylphenyl]-2,2,2-trifluoroethanone
	1171331-39-7	2-Amino-N-(2,2,2-trifluoroethyl)acetamide hydrochloride
	131986-05-5	4-acetyl-1-naphthoic acid
Fluralaner	130336-16-2	1-(3,5-Dichlorophenyl)-2,2,2-trifluoroethanone
	55860-35-0	4-Acetyl-2-methylbenzoic acid
	1171331-39-7	2-Amino-N-(2,2,2-trifluoroethyl)acetamide hydrochloride
	1095275-07-2	4-(3-(3,5-Dichlorophenyl)-4,4,4-trifluoro-3-hydroxybutanoyl)-2-methylbenzoic acid
Mirtazapine	5271-27-2	1-Methyl-3-phenylpiperazine
Ganagliflozin	1335139-58-6	(1R,3r,5S)-Bicyclo[3.1.0]hexan-3-yl methanesulfonate
Letemovir	1791412-01-5	2-Propenoic acid, 3-[3-fluoro-2-[(phenoxy-carbonyl)amino]phenyl]-, methyl ester, (2E)-
Ticagrelor	376608-65-0	2-((3aR,4S,6R,6aS)-6-amino-2,2-dimethyltetrahydro-3aH-cyclopenta[d][1,3]dioxol-4-yloxy)ethanol L-tartaric acid
Arotinolol	52560-89-1	5-(2-mercaptothiazol-4-yl)thiophene-2-carboxamide



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Orforglipron	1784678-61-0	5-Bromo-4-fluoro-1-methyl-1H-indazole
	2212021-40-2	(4-Fluoro-3,5-dimethylphenyl)hydrazine hydrochloride
	1073666-54-2	(S)-3-Aminobutanenitrile hydrochloride
	7254-19-5	5-Bromoindole-2-carboxylic acid
	2212021-83-3	5-[(S)-2,2-Dimethyltetrahydro-2H-pyran-4-yl]-1-[(1S,2S)-2-methyl-1-(5-oxo-4,5-dihydro-1,2,4-oxadiazol-3-yl)cyclopropyl]-1H-indole-2-carboxylic Acid
Baloxavir	1228258-40-9	2-(2-aminoethoxy)-1,1-dimethoxyethane
	1985607-83-7	7,8-difluoro-6,11-dihydro-Dibenzo[b,e]thiepin-11-ol
	1985607-70-2	(R)-7-(benzyloxy)-3,4,12,12a-tetrahydro-1H-[1,4]oxazino[3,4-c]pyrido[2,1-f][1,2,4]-triazine-6,8-dione
Semaglutide	1169630-82-3	Semaglutide main chain(Arg34-GLP(9-37))
	1118767-16-0	Semaglutide side chain, tBuO-Ste-Glu(AEEA-AEEA-OH)-OtBu
	2061897-68-3	Semaglutide dipeptide, BOC-L-HIS(TRT)-AIB-OH
Liraglutide	204521-68-6	Liraglutide main chain (GLP7-37)
	294855-91-7	Liraglutide side chain
Pregabalin	181289-33-8	(R)-(-)-3-Carbamoylmethyl-5-methylhexanoic acid
	181289-39-4	(S)-3-Cyano-5-methylhexanoic acid ethyl ester
Tirzepatide	1188328-37-1	Tirzepatide side chain
Others	2949-22-6	Ethyl Isocyanatoacetate
	25999-13-7	N-Propylacrylamide
	230642-84-9	4-vinyl-2,3-dihydrobenzofuran
	654-42-2	2,6-Dimethyl Hydroquinone
	5807-81-8	2-Diphenylmethylpiperidine hydrochloride
	20887-95-0	Boc-L-cysteine
	881-03-8	2-Methyl-1-nitronaphthalene
	98-97-5	2-Pyrazinecarboxylic acid