

LIST OF API INTERMEDIATES

| S. No | API Name | Saleable Intermediate | Chemical Name | CAS Number |
|-------|------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1 | Alogliptin Benzoate | Boc - APD | (R)-3-Boc-Amino piperidine | 309956-78-3 |
| 2 | Apixaban | N-1 Intermediate | Ethyl 1-(4-methoxyphenyl)-7-oxo-6-[4-(2-oxo piperidin-1-yl)phenyl]-4,5-dihydropyrazolo[3,4-c] pyridine-3-carboxylate | 503614-91-3 |
| 3 | Apremilast | Acetamide Intermediate | N-(1,3-Dioxo-1,3-dihydroisobenzofuran-4-yl) acetamide | 149690-12-0 |
| | | Resolved Intermediate | (S)-1-(3-Ethoxy-4-methoxyphenyl)-2-(methylsulfonyl)ethanamine | 149690-05-1 |
| 4 | Atomoxetine Hcl | De methyl Hydroxy Intermediate | 3-(Methylamino)-1-phenylpropan-1-ol | 42142-52-9 |
| | | N,N-Dimethyl Oxalate Salt | N,N-dimethyl-3-phenyl-3-(o-tolyloxy)propan-1-amine oxalate | 107688-86-8 |
| 5 | Azilsartan | Azilsartan Base | 1-[[2'-(4,5-Dihydro-5-oxo-4H-1,2,4-oxadiazol-3-yl)biphenyl-4-yl]methyl]-2-ethoxy-1H-benzimidazole-7-carboxylic Acid | 147403-03-0 |
| | | Ethoxy Compound | Methyl 3-((2'-cyanobiphenyl-4-yl)methyl)-2-ethoxy-3H-benzo[d]imidazole-4-carboxylate | 139481-44-0 |
| | | Azilsartan amidoxime (AZL-I) | Methyl 2-ethoxy [[2'-(hydroxyamidino)biphenyl-4-yl]methyl]-1H-benzimidazole-7-carboxylate | 147403-65-4 |
| | | Azilsartan ester (AZL-II) | Methyl 1-[[2'-(4,5-dihydro-5-oxo-4H-1,2,4-oxadiazol-3-yl) biphenyl-4-yl]methyl]-2-ethoxy-1H-benzimidazole-7-carboxylete | 147403-52-9 |
| 6 | Blonanserin | Cyclized Intermediate | 4-(4-Fluorophenyl)-5,6,7,8,9,10 hexahydrocycloocta[b]pyridin-2(1H)-One | 132812-72-7 |
| 7 | Candesartan Cilexetil | Ethoxy Compound | Methyl 3-((2'-cyanobiphenyl-4-yl)methyl)-2-ethoxy-3H-benzo[d]imidazole-4-carboxylate | 139481-44-0 |
| | | Tetrazole Compound | Methyl 3-((2'-(2H-tetrazol-5-yl)biphenyl-4-yl)methyl)-2-ethoxy-3H-benzo[d]imidazole-4-carboxylate | 139481-69-9 |
| | | Carboxylic Acid | 3-((2'-(2H-Tetrazol-5-yl)biphenyl-4-yl)methyl)-2-ethoxy 3H-benzo[d]imidazole-4-carboxylic acid | 139481-59-7 |
| | | Trityl Candesartan | 2-Ethoxy-1-[[2'-(1-triphenylmethyl-1H tetrazole-5-yl)biphenyl-4-yl]methyl]benzimidazole-7-carboxylic acid | 139481-72-4 |
| | | Trityl Candesartan Cilexetil | 1-(Cyclohexyloxycarbonyloxy)ethyl 2-ethoxy-3-((2'-(2-trityl-2H-tetrazol-5-yl)biphenyl-4-yl)methyl)-3H-benzo[d]imidazole-4-carboxylate | 170791-09-0 |
| 8 | Citalopram HBr | Cyano Diol | 4-[4-(Dimethyl amino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxyl methyl) benzonitrile | 103146-25-4 |
| | | Cyano Diol HBr | 4-[4-(Dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)benzonitrile hydrobromide | 103146-26-5 |
| | | Cyano Diol HCl | 4-[4-(Dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)benzonitrile hydrochloride | 717133-25-0 |
| 9 | Clopidogrel Bisulphate | Int-1 | D(+)-Chloro phenyl glycine methyl ester HCl | 213018-92-9 |
| | | Int-2 | 2-Thiophene ethanol tosyl ester | 40412-06-4 |
| | | CLO-II | (S)-Methyl 2-(2-chlorophenyl)-2-((2-(thiophen-2-yl)ethyl)amino)acetate hydrochloride | 141109-19-5 |
| | | Clopi Pyridine | Thieno[3,2-c]pyridine, 4,5,6,7-tetrahydro-, hydrochloride (1:1) | 28783-41-7 |

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| 10 | Dabigatran Etexilate | CPA Intermediate | N-(4-cyano-phenyl)-glycogen | 42288-26-6 |
| | | Amine Intermediate | 3-Amino-4-methylaminobenzoic acid-N-(2-pyridyl)-N-(2-ethoxycarbonylethyl) amide | 212322-56-0 |
| | | Coupled Cyano Intermediate | 1-Methyl-2-[N-(4-cyanophenyl)-aminomethyl]-benzimidazol-5-yl-carboxylic acid-N-(2-pyridyl)-N-(2-ethoxycarbonylethyl)amide | 211915-73-0 |
| | | Dabigatran | 1-Methyl-2-[N-(4-amidinophenyl)-aminomethyl]-benzimidazol-5-yl-carboxylic acid-N-(2-pyridyl)-N-(2 ethoxycarbonylethyl)amide | 429658-95-7 |
| 11 | Duloxetine HCl | De methyl Resolved Hydroxy Intermediate | (S)-3-(N-Methylamino)-1-(2-thienyl) propan-1-ol | 116539-55-0 |
| 12 | Edoxaban Tosylate | Edoxaban Base | N-(5-Chloro-2-pyridinyl)-N'-[(1S,2R,4S)-4-[(dimethylamino)carbonyl]-2-[[[4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]amino]cyclohexyl]-ethanediamide | 480449-70-5 |
| | | Edoxaban HCl | N-(5-Chloro-2-pyridinyl)-N'-[(1S,2R,4S)-4-[(dimethylamino)carbonyl]-2-[[[4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]amino]cyclohexyl]-ethanediamide- | 480448-29-1 |
| 13 | Escitalopram Oxalate | Cyano Diol | 4-[4-(Dimethyl amino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxyl methyl) benzonitrile | 103146-25-4 |
| | | Cyano Diol HBr | 4-[4-(Dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)benzonitrile hydrobromide | 103146-26-5 |
| | | Cyano Diol HCl | (4-[4-(Dimethylamino)-1-(4-fluorophenyl)-1-hydroxybutyl]-3-(hydroxymethyl)benzonitrile hydrochloride) | 717133-25-0 |
| | | Resolved Salt | 4-(Dimethylamino)-1-(4-fluorophenyl)-1-hydroxy-1-butyl-3-hydroxymethyl-benzonitrile hemi -(+)-di-p-toluoyl-d-tartaric acid salt | 128173-53-5 |
| | | Escitalopram Base | (s)-1-[3-(Dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-5 carbonitrile | 1332724-03-4 |
| 14 | Fendizoic Acid | Fendizoic acid | 2-(6-Hydroxybiphenylcarbonyl) benzoic acid | 84627-04-3 |
| 15 | Ipragliflozin | Bromo Intermediate | 2-(5-Bromo-2-fluorobenzyl) benzo[b]thiophene | 1034305-17-3 |
| | | Ipragliflozin (N-1) | (2R,3R,4R,5S,6S)-2-(Acetoxymethyl)-6-(3-(benzo[b]thiophen-2-ylmethyl)-4-fluorophenyl)-tetrahydro-2H-pyran-3,4,5-triyl triacetate | 1034305-21-9 |
| 16 | Lansoprazole | Lanso Sulphide | 2-[[[3-Methyl-4-(2,2,2-trifluoroethoxy)-2-pyridinyl]methyl]thio]-1Hbenzimidazole | 103577-40-8 |
| 17 | Levocitirizine Di HCl | Benzhydryl piperazine | (R)-1-[(4-Chlorophenyl)phenylmethyl]piperazine | 300543-56-0 |
| 18 | Linagliptin | Bromo Intermediate | 8-Bromo-7-(but-2-ynyl)-3-methyl-1H-purine-2,6(3H,7H)-dione | 666816-98-4 |
| | | Coupled Intermediate | 8-Bromo-7-(but-2-ynyl)-3-methyl-1-((4-methylquinazolin-2-yl) methyl)-1H-purine-2,6(3H,7H)-dione | 853029-57-9 |
| 19 | Linezolid | Carbamate Intermediate | N-(Ethoxy carbonyl)-3-fluoro-4-morpholinyl aniline | 565176-83-2 |
| | | Phthalimide Intermediate | (S)-Glycidyl phthalimide | 161596-47-0 |
| | | Deacetamide Linezolid Phthalimide (Coupled compound) | (S)-N-[(3-[3-Fluoro-4-[4-morpholinyl] phenyl]-2-oxo-5-oxazolidinyl)methyl] phthalimide | 168828-89-5 |
| 20 | Losartan potassium | Cyano Alcohol | 4'-[(2-butyl-4-chloro-5-hydroxymethyl)-1H-imidazol-1-yl)methyl]-[1,1'-Biphenyl]-2- | 114772-55-3 |
| | | Losartan Base | 2-Butyl-4-chloro-1-[(2'-(1H-tetrazol-5-yl)biphenyl-4-yl)methyl]-5-(hydroxymethyl)imidazole | 114798-26-4 |

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| 21 | Memantine HCl | Br-DMA | 1-Bromo-3,5-dimethyl adamantine | 941-37-7 |
| 22 | Mirabegron | Amine Compound | (R)-2-(4-Amino phenethylamino)-1-phenylethanol | 391901-45-4 |
| | | Nitro Compound | (R)-2-(4-Nitro phenethylamino)-1-phenylethanol . HCl | 521284-21-9 |
| 23 | Omeprazole | Ome Sulphide | 5-Methoxy-2-[[[(3,5-dimethyl-4-methoxy pyridinyl)-methyl]thio]-1Hbenzimidazole | 73590-85-9 |
| 24 | Olanzapine | Olanzapine Cyclic HCl | 4-amino-2-methyl-10h-thieno [2,3-b] [1,5] benzodiazepine hydrochloride | 138564-60-0 |
| | | Olanzapine Nitro | 5-Methyl-2-[(2-nitrophenyl)amino]-3-thiophenecarbonitrile | 138564-59-7 |
| 25 | Olmesartan Medoxomil | Diethyl Ester | Diethyl 2-Propylimidazole-4,5-dicarboxylate | 144689-94-1 |
| | | EPIC | Ethyl 4-(2-hydroxypropan-2-yl)-2-propyl-1H-imidazole-5-carboxylate | 144689-93-0 |
| | | Trityl Olmesartan | 4-(1-Hydroxy-1-methylethyl)-2-propyl-{4-[2-(trityltetrazol-5-yl)phenyl] phenyl} methylimidazole-5-carboxylicacid | 761404-85-7 |
| | | Trityl Olmesartan Medoxomil | (5-Methyl-2-oxo -1,3-dioxolen-4-yl)methyl 4-(1-hydroxy-1-methylethyl)-2-propyl-1-{4-[2-(trityltetrazol-5-yl)phenyl]phenyl}methyl imidazole-5-carboxylate | 144690-92-6 |
| 26 | Paliperidone | Ketobase | 3-(2-Chloroethyl)-2-methyl-9-hydroxy-6,7,8,9-tetrahydropyrido[1,2-a]pyrimidin-4-one | 130049-82-0 |
| 27 | Pantoprazole Sodium | Pantoprazole Sulphide | 5-(Difluoromethoxy)-2-[[[(3,4-dimethoxy-2-pyridinyl)-methyl]thio]-1H-benzimidazole | 102625-64-9 |
| | | Pantoprazole Base | 6-(difluoromethoxy)-2-[[[(3,4-dimethoxy-2-pyridinyl)methyl]sulfinyl]-1H-benzimidazole | 102625-70-7 |
| 28 | Pioglitazone HCl | Pio Thiozole Base | 14. (Z)-5-(4-(2-(5-Ethylpyridin-2-yl)ethoxy)benzylidene)thiazolidine-2,4-dione | 144809-28-9 |
| 29 | Posaconazole | Phenyl Carbamate Intermediate | Phenyl 4-(4-(4-hydroxyphenyl)piperazin-1-yl) phenylcarbamate (Phenyl Carbamate) | 184177-81-9 |
| | | Benzyloxy Pentane Intermediate | 2-((2S,3S)-2-(benzyloxy)pentan-3-yl)-4-(4-(4-hydroxyphenyl) piperazin-1-yl)phenyl)-2H-1,2,4-triazol-3(4H)-one (Benzyloxy Pentane) | 184177-83-1 |
| | | O-Benzyl Posaconazole Intermediate | 4-(4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)-tetrahydrofuran-3-yl)methoxy) phenyl) piperazin-1-yl)phenyl)-2-((2S,3S)-2-(benzyloxy)pentan-3-yl)-2H-1,2,4-triazol-3(4H)-one (Benzyl Posaconazole) | 170985-86-1 |
| 30 | Prasugrel | Pyridine Intermediate (CR-I) | 4,5,6,7-Tetrahydrothieno[3,2-c] pyridine hydrochloride | 28783-41-7 |
| | | THP-II | 5,6,7,7a-Tetrahydrothieno[3,2-c] pyridin-2(4H)-one hydrochloride | 115473-15-9 |
| | | Cyclopropyl Intermediate | 2-Bromo-2-(2-fluorophenyl)-1-cyclopropyl ethanone | 204205-33-4 |
| | | Prasugrel N-1 Intermediate | 5-(2-Cyclopropyl-1-(2-fluorophenyl)-2-oxoethyl)-5,6,7,7a-tetrahydrothieno[3,2-c]pyridin-2(4H)-one Hydrobromide | 150322-38-6 |
| 31 | Ranolazine | RAN-II | 1-[(2,6-Dimethylphenyl)-aminocarbonylmethyl]piperazine | 5294-61-1 |
| | | RIN-I | 1-(2-Methoxyphenoxy)-2,3-epoxypropane | 2210-74-4 |
| 32 | Risperidone | F-BIP HCl | 6-Fluoro-3-(4-piperidinyl)-1,2-benzisoxazole HCl | 84163-13-3 |
| | | F-BIP | 6-Fluoro-3-(4-piperidinyl)-1,2-benzisoxazole | 84163-77-9 |
| | | CLMTPP | 3-(2-Chloroethyl)-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one | 63234-80-0 |
| | | CLMTPP HCl | (3-(2-Chloroethyl)-2-methyl-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one hydrochloride) | 93076-03-0 |

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| 33 | Rivaroxaban | Coupled Intermediate | (S)-2-(2-hydroxy-3-(4-(3-oxomorpholino)phenylamino)propyl)isoindoline-1,3-dione | 1369969-44-7 |
| | | Cycloazed Compound | (S)-2-((2-oxo-3-(4-(3-oxomorpholino)phenyl) oxazolidin-5-yl)methyl)isoindoline-1,3-dione | 446292-08-6 |
| | | Amine Compound | (S)-(2-oxo-3-(4-(3-oxomorpholino)phenyl) oxazolidin-5-yl)methanaminium chloride | 898543-06-1 |
| 34 | Rosuvastatin Calcium | Rosuvastatin Coupled | tert-Butyl 6-[(1E)-2-[4-(4-fluorophenyl)-6-(1-methylethyl)-2-[methyl(methylsulfonyl)amino]-5-pyrimidinyl]ethenyl]-2,2-dimethyl-1,3-dioxane-4-acetate | 289042-12-2 |
| 35 | Rupatadine Fumarate | Chloro Intermediate | 3-(Chloromethyl)-5-methylpyridine hydrochloride | 1007089-84-0 |
| 36 | Sacubitril Sodium | Ethyl Ester Intermediate | (2S)-Ethyl 4-amino-5-(biphenyl-4-yl)-2-methylpentanoate hydrochloride | 149690-12-0 |
| 37 | Saxagliptin | Saxagliptin HCl | (1S,3S,5S)-2-[(2S)-Amino(3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl)acetyl]-2-azabicyclo[3.1.0]hexane-3-carbonitrile hydrochloride | 709031-78-7 |
| 38 | Sildenafil Citrate | Sil Amide | 4-Nitro-1-methyl-3n-propyl pyrazole-5-carboxamide | 139756-01-7 |
| | | Sil Amine HCl | 4-Amino-1-methyl-3n-propylpyrazole-5-carboxamide Hcl | 247584-10-7 |
| | | Sil Coupled | 4-[(2-Ethoxyphenyl) carbonylamino]-1-methyl-3npropylpyrazole-5-carboxamide | 139756-03-9 |
| | | Sil Cyclized | 5-(2-Ethoxyphenyl)-1-methyl-3-propyl-6-hydropyrazolo[4,5-d]pyrimidine-7-one | 139756-21-1 |
| | | Sil Chlorosulphonyl | 5-(5-Chlorosulfonyl-2-ethoxyphenyl)-1-methyl-3n-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]-pyrimidin-7-one | 139756-22-2 |
| | | Sildenafil Base | 1-[[3-(4,7-Dihydro-1-methyl-7-oxo-3-propyl-1H-pyrazolo[4,3-d]pyrimidin-5-yl)-4-ethoxyphenyl]sulfonyl]-4-methylpiperazine | 139755-83-2 |
| 39 | Sumatriptan Succinate | Sumatriptan Base | 3-[2-(Dimethylamino)ethyl]-N-methyl-1H-indole-5-methanesulfonamide | 103628-46-2 |
| 40 | Valsartan | Trityl valsartan Methyl Easter | 3-Methyl-2-(N-((2'-(2-trityl-2,5-dihydro-1H-tetrazol-5-yl)biphenyl-4-yl)methyl)pentanamido)butanoic acid | 195435-23-5 |
| | | Valsartan Barium Salt (RVS-I) | N-(1-Oxopentyl)-N-[[2'-(1H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]- L-valine barium salt | |
| 41 | Valsartan Sacubitril Sodium | Crystalline Form | Tri sodium salt of [3-((1S,3R)-1-biphenyl-4-ylmethyl-3-ethoxycarbonyl-1-butyl carbonyl) propionate-(S)-3'-methyl-2'-(pentanoyl-{2''-(tetrazol-5-ylate)biphenyl-4'-yl methyl}amino)butyrate] | 936623-90-4 |
| | | Amorphous | Tri sodium salt of [3-((1S,3R)-1-biphenyl-4-ylmethyl-3-ethoxycarbonyl-1-butyl carbonyl) propionate-(S)-3'-methyl-2'-(pentanoyl-{2''-(tetrazol-5-ylate)biphenyl-4'-yl methyl}amino)butyrate] | 936623-90-4 |