



As a FCAD company, Watson International Ltd focuses on sales of fine chemicals globally developed by R&D companies of FCAD group. With our team's commitment to professionalism and quality, we have built a good reputation and served many respected customers around the world including Merck, Pfizer, AstraZeneca, P&G, Sigma-Aldrich, TCI, Solvias AG, Siemens, GE, Sony, Firmenich, EDQM, University of Geneva, Cornell University, National University of Singapore..



WATSON-SIOC LAB

The Shanghai Institute of Organic Chemistry (SIOC) was founded in May 1950 as one of the first 15 institutes established by the Chinese Academy of Sciences (CAS). The mission of SIOC is to conduct cutting-edge research in the science and technology of organic chemistry and related disciplines and publicly disseminate its research results and technological developments.

The WATSON-SIOC lab in Zizhu Park, Minhang District, Shanghai, China equips with advanced equipments including,

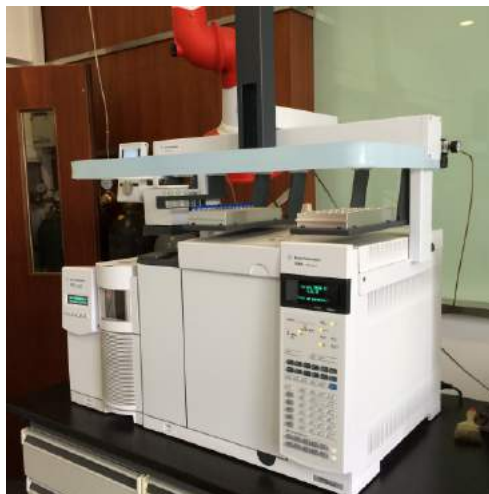
- Nuclear Magnetic Resonance (NMR)
- High Performance Liquid Chromatography (HPLC)
- Gas phase chromatography (GC)

And enhanced the research & development capacity of Watson effectively.



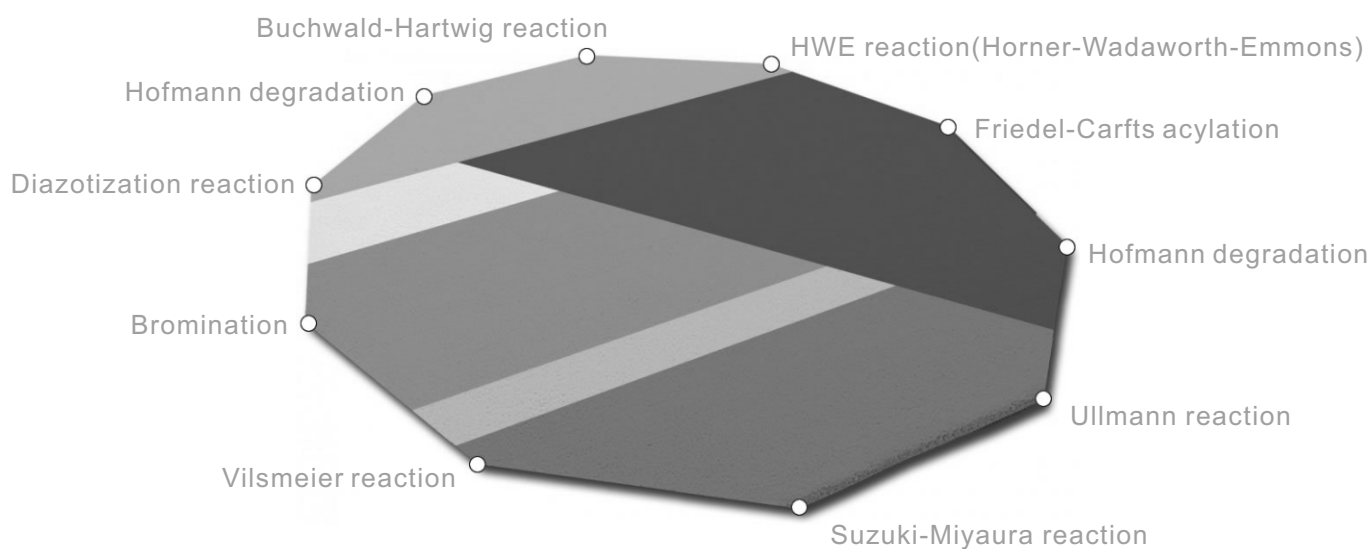
Strong R&D Capacity

We develop more than 300 new compounds and scale up at least 10 new products by production or outsourcing each year.



OUR EXPERTISE

Our expertise in different types of reactions



Our Cilents

We understand chemistry and our clients, knowing how to serve them both. We help clients from different fields to develop their required chemicals or formulations.



OUR AREAS

Pharmaceutical Materials



Diagnostic Reagents.



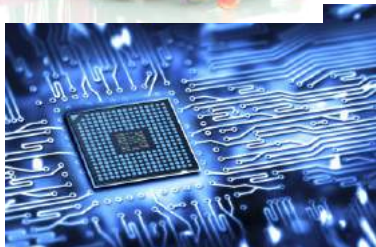
Flavors



Curing Agent



Cosmetics Ingredients



Electronic Intermediates



Photographic Formulations



Oil & Gas Chemicals

Construction Chemicals



We have passion to untiringly seek for innovative solutions to different areas.

"The success of chemical application development depends on the continuous accumulated know-how and a professional attitude."

"Our Information, Solution and Service should always be more Professional, Comprehensive and Accurate than expected."

OUR LABS



OUR PLANTS



FEATURED PRODUCT SERIES



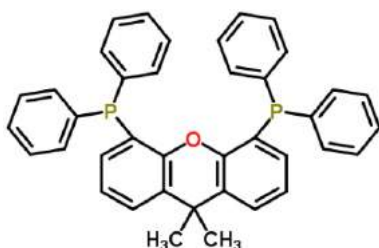
Prostaglandin analog eye drops are considered first line treatment for glaucoma. In addition to curing glaucoma, these medications are also used for cosmetic purposes which can promote eyelash growth and thicken them.

Prostaglandin: Growing Use in Cosmetics

- Bimatoprost CAS 155206-00-1
- (+)-Cloprostenol Sodium CAS 62561-03-9
- Cloprostenol isopropyl ester CAS 157283-66-4
- 15S-Cloprostenol CAS 54276-22-1
- Alprostadil CAS 745-65-3
- Lubiprostone CAS 333963-40-9
- Travoprost CAS 157283-68-6
- Latanoprost CAS 130209-82-4
- Latanoprostene bunod CAS 860005-21-6
- sopropyl Unoprostone CAS 120373-24-2
- Dinoprostone (Prostaglandin E2) CAS 363-24-6
- reprostinil sodium CAS 289480-64-4 or 81846-19-7(acid)
- loprost CAS 78919-13-8
- Misoprostol CAS 59122-46-2
- Tafluprost CAS 209860-87-7

Phosphine Ligands: Largest Supplier Globally

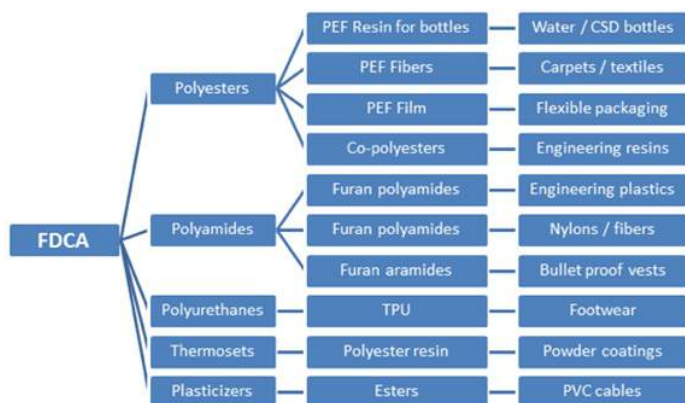
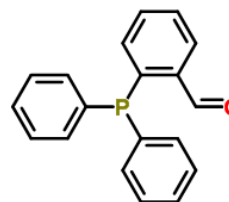
Xantphos CAS 161265-03-8



NiXantphos CAS 261733-18-0



2-Diphenylphosphinobenzaldehyde CAS 50777-76-9



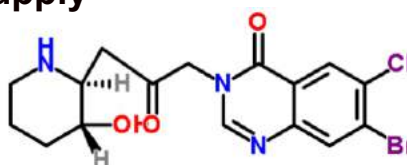
2,5-Furandicarboxylic acid (FDCA) can be used as a replacement for terephthalic acid (TA), a petroleum-based monomer that is primarily used to produce PET. The FDCA monomer offers exciting opportunities to create a wide range of polymers—polyesters, polyamides and polyurethanes—as well as coating resins, plasticizers and other chemical products.

Furan Series: New Bio-based Polymer

- FDCA, 2,5-Furandicarboxylic acid CAS 3238-40-2
- Dimethyl furan-2,5-dicarboxylate CAS 4282-32-0
- DMF, 2,5-Dimethylfuran CAS 625-86-5
- 2,5-Dimethyltetrahydrofuran CAS 1003-38-9
- HMF, 5-hydroxymethylfurfural CAS 67-47-0
- FDM, 2,5-Furandimethanol CAS 1883-75-6
- 2,5-Diformylfuran CAS 823-82-5
- 2,5-dihydroxymethyl tetrahydrofuran CAS 104-80-3
- 5-Hydroxymethyl-2-furancarboxylic acid CAS 6338-41-6
- 5-Methyl-2-furanmethanol CAS: 3857-25-8
- 5-Formyl-2-furancarboxylic acid CAS 13529-17-4
- 4-Benzofurazancarboxaldehyde CAS 32863-32-4
- 3-Furanboronic acid CAS 55552-70-0
- (S)-(+)-3-Hydroxytetrahydrofuran CAS 86087-23-2

Halofuginone Series: High Purity & Bulk Supply

- Halofuginone Hydrobromide CAS 17395-31-2
- Halofuginone CAS 55837-20-2
- Halofuginone lactate CAS 82186-71-8

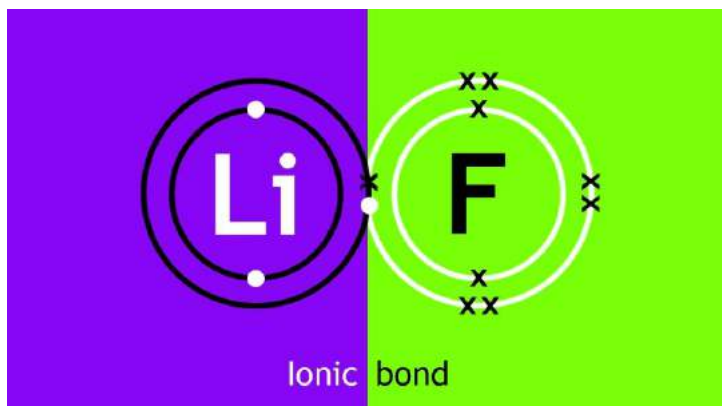


Chemical derivative of febrifugine, Halofuginone is a natural quinazolinone found in Chinese herb Dichora. Previously, the drug was used in veterinary medicine; however, today it is being developed for the treatment of scleroderma and has received orphan drug designation from FDA.

Cosmetic & Custom Peptides

- Acetyl Hexapeptide-8 CAS 616204-22-9
- Copper Tripeptide-1 CAS 130120-57-9
- Palmitoyl Tripeptide-1 CAS 147732-56-7
- Palmitoyl Tetrapeptide-7 CAS 221227-05-0
- Palmitoyl Pentapeptide-4 CAS 214047-00-4
- Palmitoyl Oligopeptide CAS 171263-26-6
- Acetyl Octapeptide-3 CAS 868844-74-0
- Palmitoyl Tripeptide-5 CAS 623172-56-5
- Human Oligopeptide-1 CAS 62253-63-8

For more cosmetic peptides or custom peptide service, please get in touch with Watson



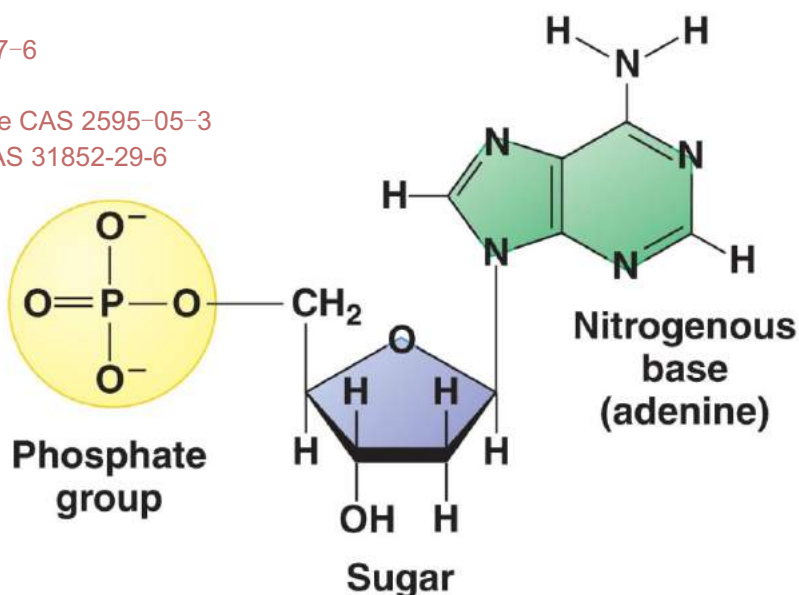
Fluoride related compounds account for a large part in Watson's new developed products and are widely used in many areas.

- Methyl 2,2-difluoro-2-(fluorosulfonyl)acetate CAS 680-15-9
- 2-(Fluorosulfonyl)difluoroacetic acid CAS 1717-59-5
- Trimethylsilyl 2-(fluorosulfonyl)difluoroacetate CAS 120801-75-4
- 4-(Trifluoromethyl)nicotinic acid CAS 158063-66-2
- Togni Reagent II CAS 887144-94-7
- Togni's Reagent CAS 887144-97-0
- LiODFB CAS 409071-16-5
- LiBF₄ CAS 14283-07-9
- LiBOB CAS 244761-29-3

Carbohydrates, Nucleotides & Enzymes: Widely used in diagnostic reagents

- Chlorophenol Red-beta-D-galactopyranoside CAS 99792-79-7
- Lentinan CAS 37339-90-5
- Diaceton-alpha-D-mannofuranose CAS 14131-84-1
- D-Maltotriose CAS 1109-28-0
- L-Threonic acid magnesium salt CAS 778571-57-6
- N-Acetylgalactosamine CAS 1811-31-0
- 1,2:5,6-Di-O-isopropylidene-alpha-D-allofuranose CAS 2595-05-3
- Polyinosinic-polycytidylic acid potassium salt CAS 31852-29-6
- UDP-glc CAS 28053-08-9
- NAD sodium salt CAS 20111-18-6
- Pancreatin CAS 8049-47-6
- Chymotrypsin CAS 9004-07-3
- Aprotinin CAS 9087-70-1
- Pepsin CAS 9001-75-6

For more Carbohydrates, Nucleotides & Enzymes, please visit www.watson-int.com and get in touch with Watson

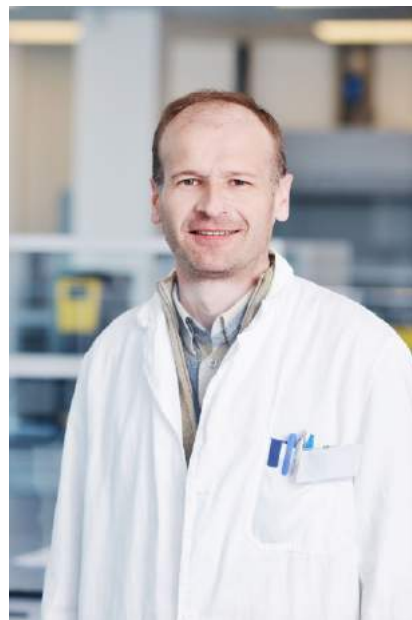


FEATURED SERVICE

Custom Peptides

Watson is able to produce more than 1,000 purified peptides per month with the help of synthetic chemists and purification technicians utilizing state-of-the-art highly sophisticated peptide instrumentations. Equipment used includes NMR, FT-IR, MS, Amino Acid Analyzer, well automated peptide synthesizers, microwave-assisted peptide synthesizer, analytical and preparative HPLC

- Simple to complex and Linear to cyclized
- Long sequences peptide up to 140 mer
- From small to large scale
- Different purity level
- Widest variety of modifications
- Peptides – Protein Bioconjugation
- Purification at different scales
- Highest success rate in the industry



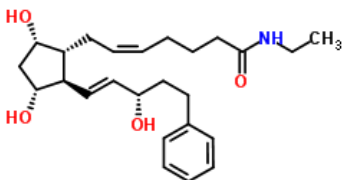
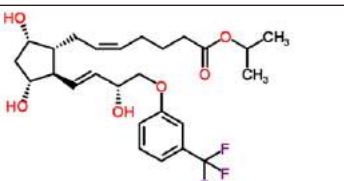
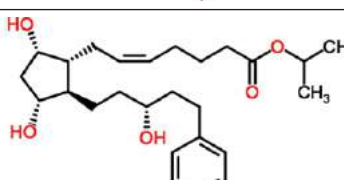
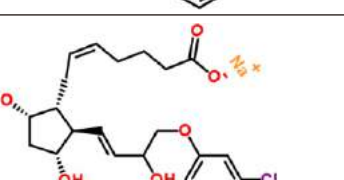
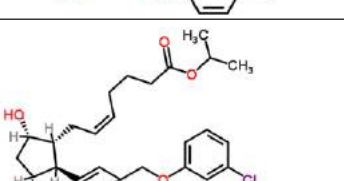
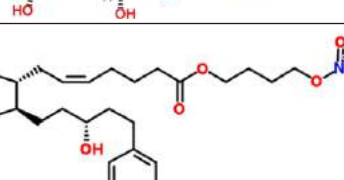
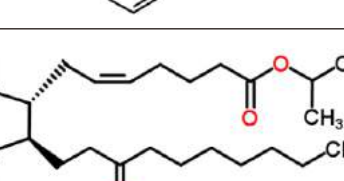
Resin Selection & Development

Watson had developed dozens of resins for customers from different fields and can suggest proper ones according to customers' requirement. Candidate resins are selected from our resin library and evaluated in a screening procedure following conditions that mimic the actual separation problem. For many applications, suitable resins are already present in our resin library. If no satisfactory hit is identified, new resins may be designed.

Other Reaction Types

Bromination	Diazotization reaction
Vilsmeier reaction	Hofmann degradation
Grignard reaction	Ullmann reaction
HWE reaction(Horner-Wadsworth-Emmons)	Buchwald-Hartwig reaction
Suzuki-Miyaura reaction	Friedel-Crafts acylation

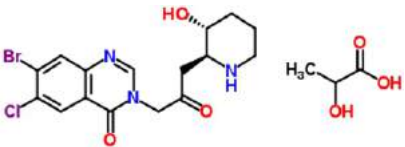
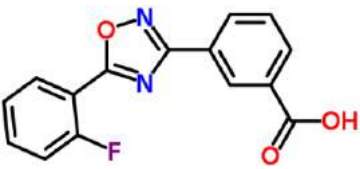
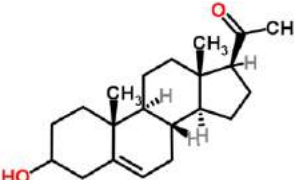
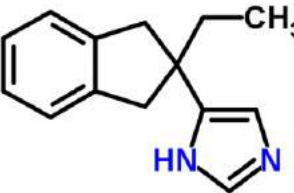
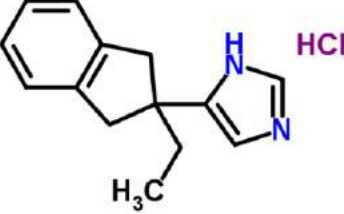
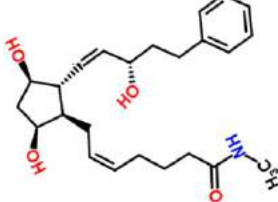
Featured Product List

	Name	CAS NO.	Structure
APIs			
1	Bimatoprost	155206-00-1	
2	Travoprost	157283-68-6	
3	15S-Cloprostenol	54276-22-1	
4	Latanoprost	130209-82-4	
5	(+)-Cloprostenol sodium	62561-03-9	
6	Cloprostenol isopropyl ester	157283-66-4	
7	Latanoprostene bunod	86005-21-6	
8	Isopropyl Unoprostone	120373-24-2	

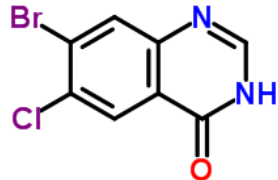
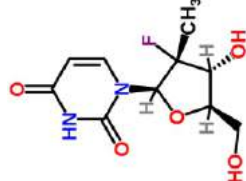
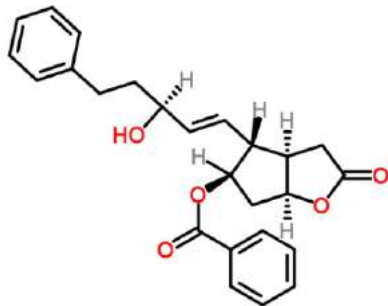
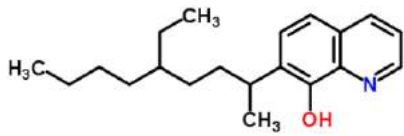
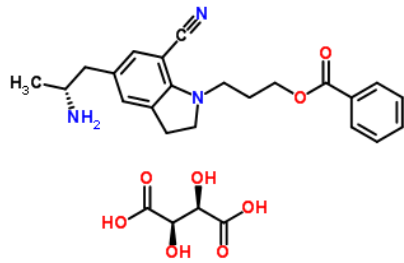
Featured Product List

	Name	CAS NO.	Structure
9	Dinoprostone (Prostaglandin E2)	363-24-6	
10	Treprostinil sodium (acid)	289480-64-4 81846-19-7	
11	Iloprost	78919-13-8	
12	Misoprostol	59122-46-2	
13	Tafluprost	209860-87-7	
14	Lubiprostone	333963-40-9	
15	Chelidamic acid	138-60-3	
16	Tafluprost ethyl amide	1185851-52-8	
17	Selamectin	220119-17-5	

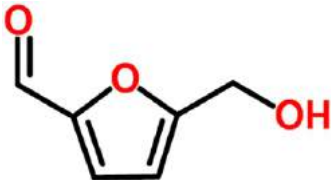
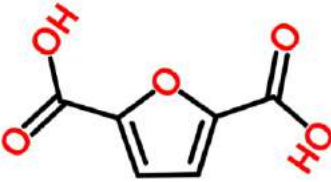
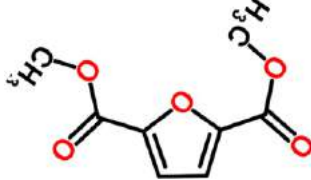
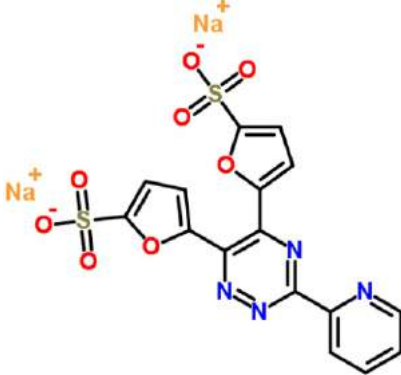
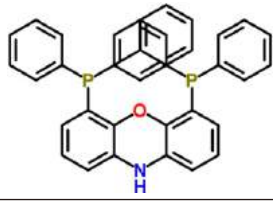
Featured Product List

	Name	CAS NO.	Structure
18	Halofuginone Hydrobromide	17395-31-2	
19	Halofuginone lactate	82186-71-8	
20	Halofuginone	55837-20-2	
21	Ataluren	775304-57-9	
22	Pregnenolone	145-13-1	
23	Atipamezole	104054-27-5	
24	Atipamezole Hydrochloride	104075-48-1	
25	17-phenyl trinor Prostaglandin F2α methyl amide	155206-01-2	

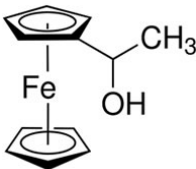
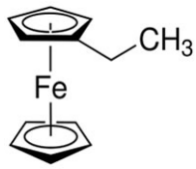
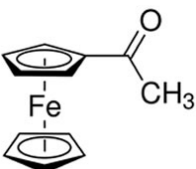
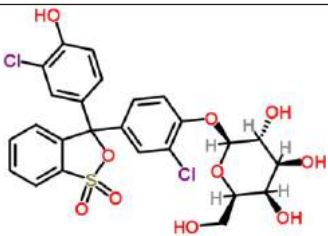
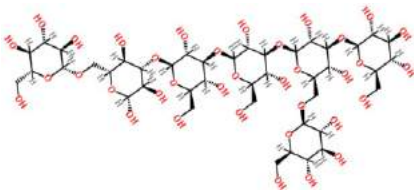
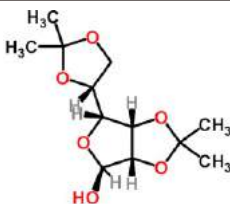
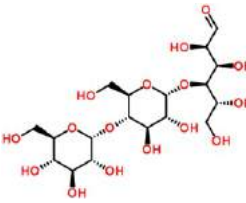
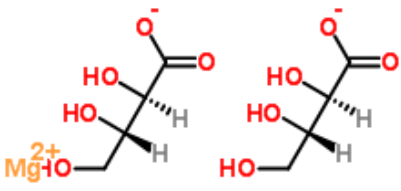
Featured Product List

	Name	CAS NO.	Structure
Intermediates			
26	7-Bromo-6-chloro-4-quinazolinone(Intermediate of Halofuginone)	17518-98-8	
27	(2'R)-2'-Deoxy-2'-fluoro-2'-methyluridine(Intermediate of Sofosbuvir)	863329-66-2	
28	4-Fluoro-2-methoxy-5-nitroaniline(Intermediate of AZD-9291)	1075705-01-9	
29	(3aR,4R,5R,6aS)-5-(Benzoyloxy)hexahydro-4-[(1E,3S)-3-hydroxy-5-phenyl-1-penten-1-yl]-2H-cyclopenta[b]furan-2-one(Intermediate of Bimatoprost)	55444-68-3	
30	DL-Praziquanamine(Intermediate of Praziquantel)	61196-37-0	
31	Kelex-100	73545-11-6	
32	5-[(2R)-2-Aminopropyl]-1-[3-(benzoyloxy)propyl]-2,3-dihydro-1H-indole-7-carbonitrile (2R,3R)-2,3-dihydroxybutanedioate(Int ermediate of Silodosin)	239463-85-5	

Featured Product List

	Name	CAS NO.	Structure
Furan			
33	5-Hydroxymethylfurfural	67-47-0	
34	2,5-Furandicarboxylic acid	3238-40-2	
35	Dimethyl furan-2,5-dicarboxylate	4282-32-0	
36	Ferene disodium salt	79551-14-7	
Catalysts & Metallic Compounds			
37	Xantphos	161265-03-8	
38	NiXanthphos	261733-18-0	
39	2-Diphenylphosphino-benzaldehyde	50777-76-9	

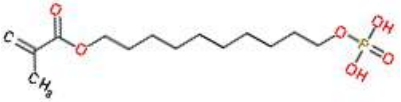
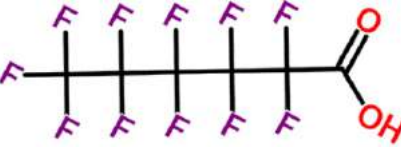
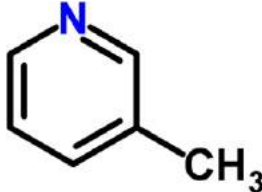
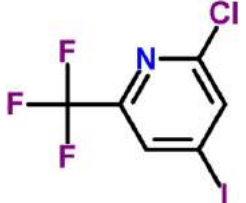
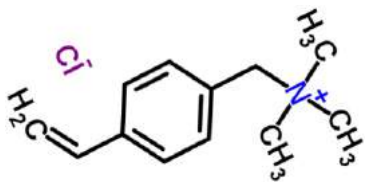
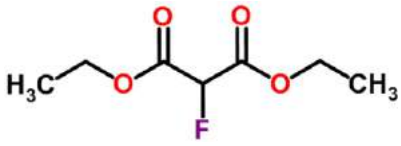
Featured Product List

	Name	CAS NO.	Structure
40	1-(Ferrocenyl)ethanol	1277-49-2	
41	Ethylferrocene	1273-89-8	
42	Acetylferrocene	1271-55-2	
Carbohydrate, Nucleotide & Enzyme			
43	Chlorophenol Red-beta-D-galactopyranoside	99792-79-7	
44	Lentinan	37339-90-5	
45	Diaceton-alpha-D-mannofuranose	14131-84-1	
46	D-Maltotriose	1109-28-0	
47	L-Threonic acid magnesium salt	778571-57-6	

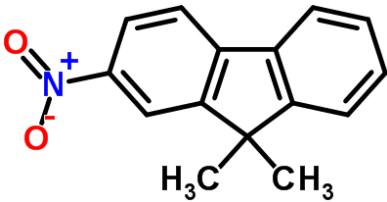
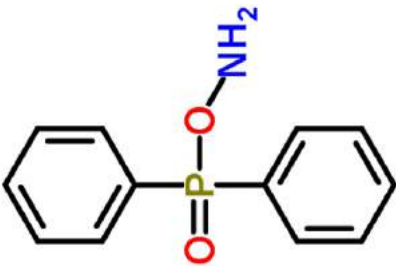
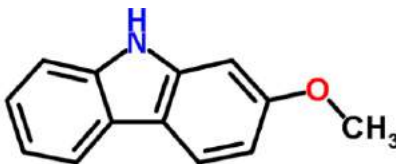
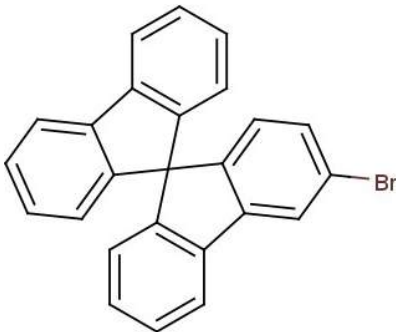
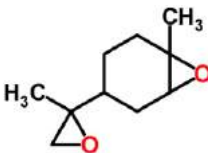
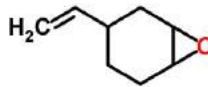
Featured Product List

	Name	CAS NO.	Structure
48	N-Acetylgalactosamine	1811-31-0	
49	1,2:5,6-Di-O-isopropylidene-alpha-D-allofuranose	2595-05-3	
50	L-(+)-Rhamnose(monohydrate)	3615-41-6(10030-85-0)	
51	D-Galactose (Plant Based)	59-23-4	
52	D-(+)-Mannose	3458-28-4	
53	Polyinosinic–polycytidylic acid potassium salt	31852-29-6	
54	UDP-glc	28053-08-9	
55	NAD sodium salt	20111-18-6	
56	Pancreatin	8049-47-6	
57	Chymotrypsin	9004-07-3	
58	Aprotinin	9087-70-1	
59	Pepsin	9001-75-6	

Featured Product List

	Name	CAS NO.	Structure
Others			
60	10-MDP	85590-00-7	
61	Undecafluorohexanoic acid	307-24-4	
62	3,5-Dichloro-4-iodopyridine	343781-41-9	
63	3-Picoline	108-99-6	
64	2-Chloro-4-iodo-6-(trifluoromethyl)pyridine	205444-22-0	
65	Vinylbenzyl trimethylammonium chloride	26616-35-3	
66	Diethyl fluoromalonate	685-88-1	
67	Dimethyl fluoromalonate	344-14-9	

Featured Product List

	Name	CAS NO.	Structure
68	9,9-Dimethyl-2-nitro-9H-fluorene	605644-46-0	
69	O-Diphenylphosphinyl-hydroxylamine	72804-96-7	
70	2-Methoxy-9H-carbazole	6933-49-9	
71	3-DroMo-9,9'-spirobifluorene	1361227-58-8	
Resins			
72	LIMONENE DIOXIDE(LDO)	96-08-2	
73	1,2-Epoxy-4-vinylcyclohexane	106-86-5	



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