

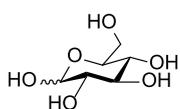
# Carbohydrates

Carbohydrates, one of the most widely distributed classes of organic compounds, are defined as polyhydroxy aldehydes or ketones and their polymers. They serve as a primary energy source and play fundamental structural and functional roles in all life forms.

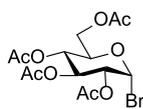
## Part1 Monosaccharides

Monosaccharides are the fundamental building blocks of complex glycans and polysaccharides. A wide variety of structurally diverse monosaccharide derivatives exist, including those functionalized with groups such as acetyl or phosphate. In synthesis, the selective protection and functionalization of monosaccharide hydroxyl groups is a cornerstone technique for constructing complex carbohydrate architectures.

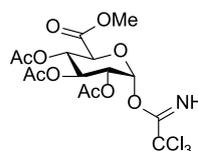
### Glucose Monomers & Derivatives



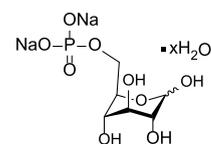
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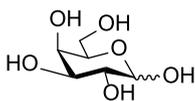


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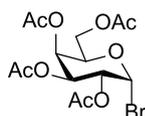


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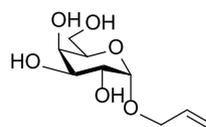
### Galactose Monomers & Derivatives



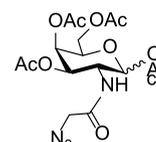
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BD64907 3068-32-4

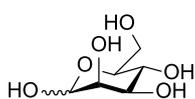


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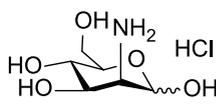


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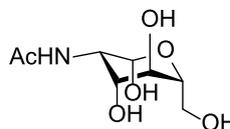
### Mannose Monomers & Derivatives



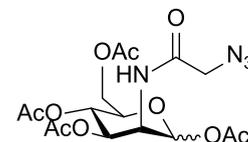
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BD126676 5505-63-5



BD143000 7772-94-3



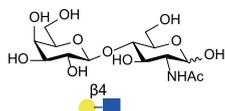
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## Part2 Oligosaccharides

Oligosaccharides are carbohydrates typically composed of 2 to 10 monosaccharides. The specific biological function of an oligosaccharide is largely determined by key structural variations, including the types of monosaccharides, their sequence, and the overall branching architecture.

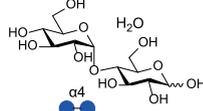
■ GlcNAc ● Glu ● Gal ◆ Neu5Ac ▲ Fuc

### Disaccharide

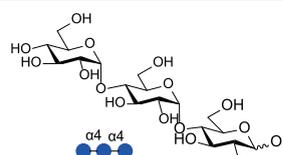


BD15647 32181-59-2

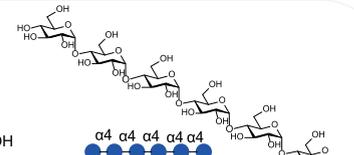
### Maltooligosaccharides



BD137132 6363-53-7

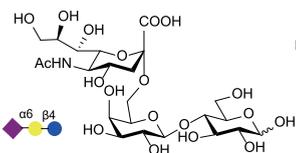


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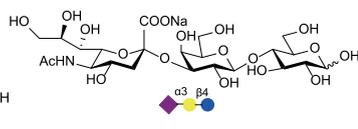


BD137122 34620-77-4

### Human Milk Oligosaccharides

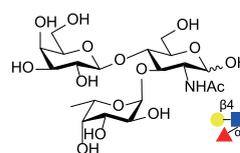


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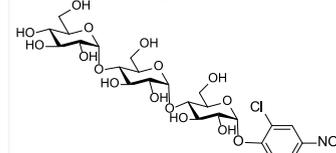
BD305537 128596-80-5

### Blood Type Oligosaccharides



BD136255 71208-06-5

### Modified Oligosaccharides



BD294262 118291-90-0

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## Part3 Polysaccharides

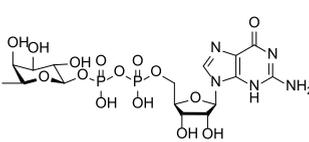
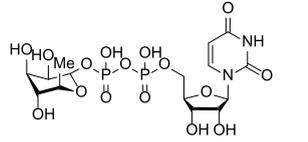
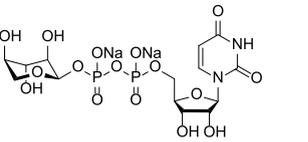
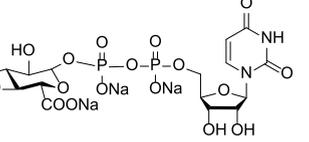
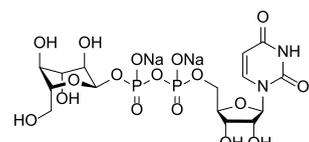
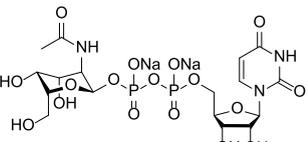
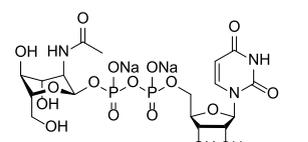
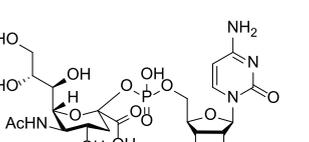
Polysaccharides are high molecular compounds composed of tens to thousands of monosaccharides. With natural functions ranging from energy storage to serving as structural components, they show immense promise for applications in drug delivery, cosmetics, nutritional health, and advanced biomaterials.

Name	BD	CAS	Name	BD	CAS
Heparin	BD132998	9005-49-6	Sodium hyaluronate	BD01407302	9067-32-7
Laminaran	BD306038	9008-22-4	Cellulose	BD120355	9004-34-6
Xylan	BD156671	9014-63-5	$\beta$ -Cyclodextrin	BD116491	7585-39-9
Polydextrose	BD148565	68424-04-4	FITC-Dextran	BD01118693	60842-46-8

## Part4 Glyconucleotides

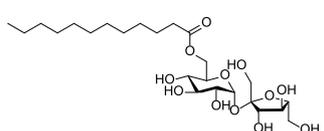
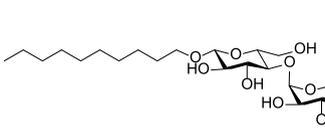
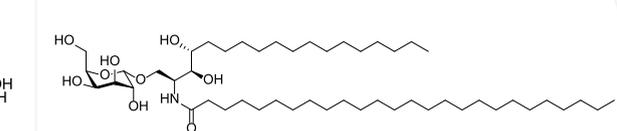
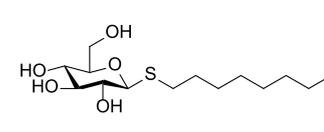
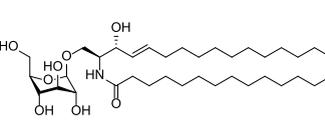
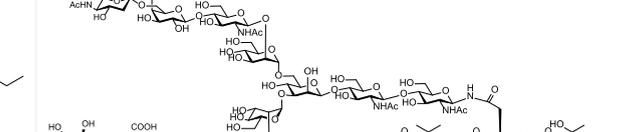
Glyconucleotides are activated glycosyl donors that serve as the essential substrates for the biosynthesis of glycoconjugates and oligosaccharides.

### Glyconucleotides

			
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BD434989 28053-08-9	BD156144 108320-87-2	BD00772265 91183-98-1	BD101955 3063-71-6

## Part5 Glycolipid&Glycopeptides

Glycolipids possess an amphiphilic structure with a hydrophilic sugar head and a hydrophobic lipid tail. This unique structure enables them to demonstrate potent antimicrobial, anti-inflammatory, and antioxidant activities. Glycopeptides, consisting of short carbohydrate chains linked to peptide sequences, are key modulators of protein function and immunological properties.

<b>Lauryl Sucrose</b> 	<b>Decyl <math>\beta</math>-D-maltopyranoside</b> 	<b><math>\alpha</math>-Galactosylceramide</b> 
BD634722 13039-40-2	BD144018 82494-09-5	BD01098783 158021-47-7
<b>Octyl <math>\beta</math>-D-thioglucopyranoside</b> 	<b>C18 Glucosyl((<math>\beta</math>) ceramide (d18:1/18:0))</b> 	<b>Sialylglycopeptide</b> 
BD145341 85618-21-9	BD01087360 95119-86-1	BD01095639 189035-43-6

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