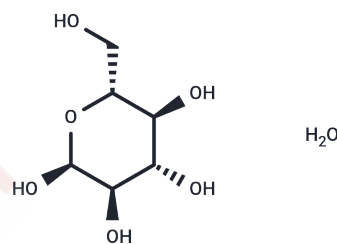


alpha-D-glucose hydrate

Chemical Properties

CAS No. :	14431-43-7
Formula:	C ₆ H ₁₄ O ₇
Molecular Weight:	198.17
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Alpha-D-glucose hydrate is a monosaccharide and the most common form of glucose, playing a vital role in energy metabolism as the primary energy source for many cells. It is also a building block of larger carbohydrates such as starch and glycogen. The "α" prefix refers to the orientation of the hydroxyl group attached to the first carbon atom. In solution, alpha-D-glucose exists as a hydrate, bound to water molecules.
In vitro	Alpha-D-glucose (hydrate) is a biochemical reagent that serves as a biomaterial or organic compound for research in life sciences.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0462 mL	25.2309 mL	50.4617 mL
5 mM	1.0092 mL	5.0462 mL	10.0923 mL
10 mM	0.5046 mL	2.5231 mL	5.0462 mL
50 mM	0.1009 mL	0.5046 mL	1.0092 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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