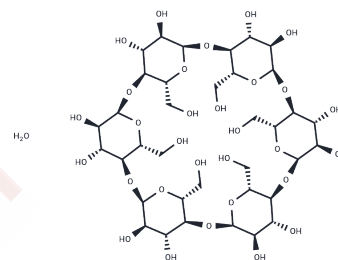


## α-Cyclodextrin (hydrate)

### Chemical Properties

CAS No. :	51211-51-9
Formula:	C36H62O31
Molecular Weight:	990.861
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	α-Cyclodextrin (α-CD) is a saccharide comprised of six glucose subunits linked by α-1,4 bonds, which results in a cone-shaped molecule. It contains a hydrophobic interior and hydrophilic exterior, which allow it to form inclusion complexes with wide variety of molecules, conferring enhanced solubility and stabilization to the molecules. α-CD has commonly been used in the separation and purification of chemicals on an industrial scale. Formulations containing α-CD have been used in the pharmaceutical industry to improve the physical and chemical properties of compounds, the food industry as flavor carriers and stabilizers in processed and ultra-processed foods and certain beverages, as well as in other industrial applications.
Targets(IC50)	Others

### Solubility Information

Solubility	PBS (pH 7.2): 5 mg/mL (5.05 mM), Sonication is recommended. DMSO: 5 mg/mL (5.05 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0092 mL	5.0461 mL	10.0922 mL
5 mM	0.2018 mL	1.0092 mL	2.0184 mL
10 mM	0.1009 mL	0.5046 mL	1.0092 mL
50 mM	0.0202 mL	0.1009 mL	0.2018 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.

Reference

Li, S., and Purdy, W.C. Cyclodextrins and their applications in analytical chemistry *Chem. Rev.* 92(6)1457-1470(1992)

Astray, G., Gonazalez-Barreiro, C., Mejuto, J.C., et al. A review on the use of cyclodextrins in foods *Food Hydrocolloids* 23(7)1631-1640(2009)

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