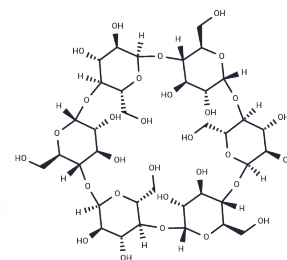


α-Cyclodextrin

Chemical Properties

CAS No. :	10016-20-3
Formula:	C36H60O30
Molecular Weight:	972.84
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 (Alfadex) is a soluble fiber derived from corn and has beneficial effects on weight management in obese individuals with type 2 diabetes.
Targets(IC50)	Others, Microtubule Associated, SARS-CoV
In vivo	α-Cyclodextrin preferentially reduces blood levels of saturated and trans fats in the LDL receptor knockout mice[2]. Two independent in vivo biological test systems were used, a single cell <i>Xenopus</i> oocyte with expressed human aquaporin for cell hydration studies and the nematode <i>Caenorhabditis elegans</i> for testing life span in the treated animals. α-Cyclodextrin was found to enhance water uptake through aquaporins of oocytes. Furthermore, α-Cyclodextrin promoted longevity in <i>C. elegans</i> [3].

Solubility Information

Solubility	H2O: 40 mg/mL (41.12 mM), Sonication is recommended. DMSO: 100 mg/mL (102.79 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	1.0279 mL	5.1396 mL	10.2792 mL
5 mM	0.2056 mL	1.0279 mL	2.0558 mL
10 mM	0.1028 mL	0.514 mL	1.0279 mL
50 mM	0.0206 mL	0.1028 mL	0.2056 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

- Uesawa M, Muroi K, Ozawa K. Plasmapheresis-refractory transplantation-associated thrombotic microangiopathy successfully treated with pravastatin and limaprost alfadex. *Ther Apher Dial.* 2013 Aug;17(4):462-3.
- Comerford KB, et al. The beneficial effects of α -cyclodextrin on blood lipids and weight loss in healthy humans. *Obesity (Silver Spring).* 2011 Jun;19(6):1200-4.
- Szente L, et al. Effects of alpha-cyclodextrin on water transport, cell hydration and longevity. *Aging (Albany NY).* 2021 Jan 19;13(2):1718-1728.
- Inoue A, et al. Lichenoid Drug Eruption Caused by Limaprost Alfadex. *Acta Derm Venereol.* 2016 Nov 2;96(7):997-998.

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