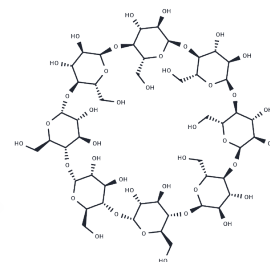


γ -Cyclodextrin

Chemical Properties

CAS No. :	17465-86-0
Formula:	C ₄₈ H ₈₀ O ₄₀
Molecular Weight:	1297.12
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	γ -Cyclodextrin (Ringdex C) is a cycloamylose composed of eight alpha-(1->4) linked D-glucopyranose units found in some foods.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 125 mg/mL (96.37 mM),Sonication is recommended. 1 M NH ₄ OH: 40 mg/mL (30.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (1.54 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (7.71 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7709 mL	3.8547 mL	7.7094 mL
5 mM	0.1542 mL	0.7709 mL	1.5419 mL
10 mM	0.0771 mL	0.3855 mL	0.7709 mL
50 mM	0.0154 mL	0.0771 mL	0.1542 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

Cho Y, et al. Effects of propolis and gamma-cyclodextrin on intestinal neoplasia in normal weight and obese mice. *Cancer Med.* 2016 Sep;5(9):2448-58.

Goo BG, Hwang YJ, Park JK. *Bacillus thuringiensis*: a specific gamma-cyclodextrin producer strain. *Carbohydr Res.* 2014 Mar 11;386:12-7.

Soica C, et al. Betulinic acid in complex with a gamma-cyclodextrin derivative decreases proliferation and in vivo tumor development of non-metastatic and metastatic B164A5 cells. *Int J Mol Sci.* 2014 May 9;15(5):8235-55.

Ikeda S, et al. Complexation of tocotrienol with gamma-cyclodextrin enhances intestinal absorption of tocotrienol in rats. *Biosci Biotechnol Biochem.* 2010;74(7):1452-7. Epub 2010 Jul 7.

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