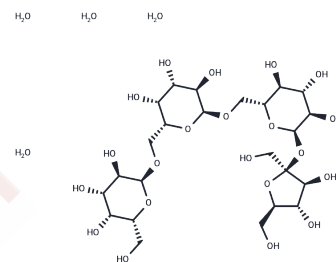


Stachyose tetrahydrate

Chemical Properties

CAS No. :	10094-58-3
Formula:	C ₂₄ H ₅₀ O ₂₅
Molecular Weight:	738.64
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Stachyose tetrahydrate (D-Stachyose tetrahydrate) is a tetrasaccharide consisting of two α -D-galactose units, one α -D-glucose unit, and one β -D-fructose unit sequentially.
Targets(IC50)	Apoptosis,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 250 mg/mL (338.46 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 (2.71 mM),Sonication is recommended. <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	1.3538 mL	6.7692 mL	13.5384 mL
5 mM	0.2708 mL	1.3538 mL	2.7077 mL
10 mM	0.1354 mL	0.6769 mL	1.3538 mL
50 mM	0.0271 mL	0.1354 mL	0.2708 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 W, et al. Mol Nutr Food Res. 2015 Nov 19.

Zhang Q, Liu X, Li Z, et al. Rapid quantitative analysis with low matrix effects of capsaicin in various samples by thermal desorption carbonfiber ionization mass spectrometry. Analytica Chimica Acta. 2019, 1048: 115-122

Zhang Qiang, et al. Rapid quantitative analysis with low matrix effects of capsaicin in various samples by thermal desorption carbonfiber ionization mass spectrometry [J]. Analytica Chimica Acta. 2019 Feb 7;1048:115-122.

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