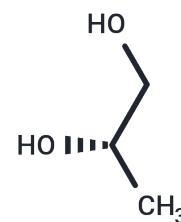


(S)-(+)-1,2-Propanediol

Chemical Properties

CAS No. :	4254-15-3
Formula:	C ₃ H ₈ O ₂
Molecular Weight:	76.09
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	(S)-(+)-1,2-Propanediol ((2S)-propane-1,2-diol) is an endogenous compound produced by the engineered bacterium Lactococcus lactis.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 80 mg/mL (1051.39 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: 3.3 mg/mL (43.37 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	13.1423 mL	65.7117 mL	131.4233 mL
5 mM	2.6285 mL	13.1423 mL	26.2847 mL
10 mM	1.3142 mL	6.5712 mL	13.1423 mL
50 mM	0.2628 mL	1.3142 mL	2.6285 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

Marek Głowka, et al. New Trends and Perspectives in Production of 1,2-Propanediol. ACS Sustainable Chemistry & Engineering 2023 11 (19), 7274-7287.

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