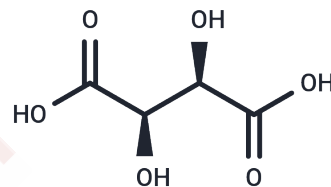


L-Tartaric acid

Chemical Properties

CAS No. :	87-69-4
Formula:	C ₄ H ₆ O ₆
Molecular Weight:	150.09
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	L-Tartaric acid ((2R,3R)-(+)-Tartaric acid) occurs naturally in many plants, particularly grapes and tamarinds, and is one of the main acids found in wine. It is used as an antioxidant. Salts of tartaric acid are known as tartrates. L-Tartaric acid is a muscle toxin, which works by inhibiting the production of malic acid, and in high doses causes paralysis and death.
Targets(IC50)	Antioxidant,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 250 mg/mL (1665.67 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 (13.33 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (66.63 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	6.6627 mL	33.3133 mL	66.6267 mL
5 mM	1.3325 mL	6.6627 mL	13.3253 mL
10 mM	0.6663 mL	3.3313 mL	6.6627 mL
50 mM	0.1333 mL	0.6663 mL	1.3325 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

Regueiro J, et al. Urinary tartaric acid as a potential biomarker for the dietary assessment of moderate wine consumption: a randomised controlled trial. *Br J Nutr.* 2014 May;111(9):1680-5.

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