

rel-(2R,3S)-2,3-Dihydroxysuccinic acid hydrate

Chemical Properties

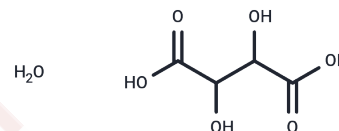
CAS No. : 5990-63-6

Formula: C₄H₈O₇

Molecular Weight: 168.1

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	rel-(2R,3S)-2,3-Dihydroxysuccinic acid hydrate (meso-Tartaric acid monohydrate) 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. Tartaric acid is a muscle toxin that inhibits the production of malic acid and, in high doses, causes paralysis and death.
Targets(IC50)	Antioxidant,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 55 mg/mL (327.19 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	5.9488 mL	29.7442 mL	59.4884 mL
5 mM	1.1898 mL	5.9488 mL	11.8977 mL
10 mM	0.5949 mL	2.9744 mL	5.9488 mL
50 mM	0.119 mL	0.5949 mL	1.1898 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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