

Sorbic acid

Chemical Properties

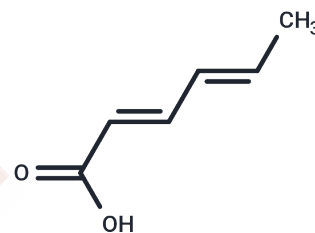
CAS No. : 110-44-1

Formula: C₆H₈O₂

Molecular Weight: 112.13

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	Sorbic acid is a natural product that inhibits various bacteria, including sporeformers,
Targets(IC50)	Anti-infection,Endogenous Metabolite,Antibacterial,Antibiotic,Antifungal,IGF-1R

Solubility Information

Solubility	DMSO: 60 mg/mL (535.09 mM),Sonication is recommended. Ethanol: 22 mg/mL (196.2 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 (17.84 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	8.9182 mL	44.5911 mL	89.1822 mL
5 mM	1.7836 mL	8.9182 mL	17.8364 mL
10 mM	0.8918 mL	4.4591 mL	8.9182 mL
50 mM	0.1784 mL	0.8918 mL	1.7836 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

Liewen M B , Marth E H . Growth and Inhibition of Microorganisms in the Presence of Sorbic Acid: A Review[[]].
Journal of Food Protection, 1985, 48(4):364-375.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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