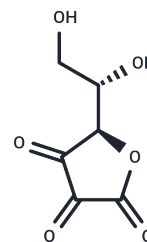


Dehydroascorbic acid

Chemical Properties

CAS No. :	490-83-5
Formula:	C ₆ H ₆ O ₆
Molecular Weight:	174.11
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	L-Dehydro Ascorbic Acid is the reversibly oxidized form of ascorbic acid; Dehydroascorbic acid ((L)-Dehydroascorbic acid), a blood-brain barrier transportable form of vitamin C, mediates potent cerebroprotection in experimental stroke.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 30 mg/mL (172.3 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 (11.49 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	5.7435 mL	28.7175 mL	57.435 mL
5 mM	1.1487 mL	5.7435 mL	11.487 mL
10 mM	0.5743 mL	2.8717 mL	5.7435 mL
50 mM	0.1149 mL	0.5743 mL	1.1487 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

Huang J, et al. Dehydroascorbic acid, a blood-brain barrier transportable form of vitamin C, mediates potent cerebroprotection in experimental stroke. Proc Natl Acad Sci U S A. 2001 Sep 25;98(20):11720-4.

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