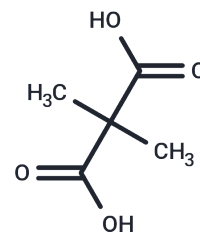


Dimethylmalonic acid

Chemical Properties

CAS No. :	595-46-0
Formula:	C ₅ H ₈ O ₄
Molecular Weight:	132.11
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	Dimethylmalonic acid(2,2-Dimethylmalonic acid) is a short-chain dicarboxylic acid found in human serum that can be used to prevent or retard denaturation of fish actinomyosin in freezing buffer solution (pH 7).
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 60 mg/mL (454.17 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 (15.14 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	7.5694 mL	37.8472 mL	75.6945 mL
5 mM	1.5139 mL	7.5694 mL	15.1389 mL
10 mM	0.7569 mL	3.7847 mL	7.5694 mL
50 mM	0.1514 mL	0.7569 mL	1.5139 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

David A. Evans, et al. An Improved Procedure for the Preparation of 2,2-Bis[2-[4(S)- tert-butyl-1,3-oxazoliny]] propane [(S,S)-tert-Butylbis(oxazoline)] and Derived Copper(II) Complexes. J. Org. Chem. 1998, 63, 13, 4541-4544.

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