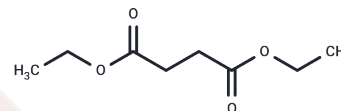


Diethyl succinate

Chemical Properties

CAS No. :	123-25-1
Formula:	C ₈ H ₁₄ O ₄
Molecular Weight:	174.19
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	Diethyl succinate is the diethyl ester of succinate and acts as an irritant.
Targets(IC50)	Others, Reactive Oxygen Species, ROS

Solubility Information

Solubility	DMSO: 250 mg/mL (1435.21 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2.5 mg/mL (14.35 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	5.7409 mL	28.7043 mL	57.4086 mL
5 mM	1.1482 mL	5.7409 mL	11.4817 mL
10 mM	0.5741 mL	2.8704 mL	5.7409 mL
50 mM	0.1148 mL	0.5741 mL	1.1482 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

Zacharias NM, et al. Real-time molecular imaging of tricarboxylic acid cycle metabolism in vivo by hyperpolarized 1-(13)C diethyl succinate. J Am Chem Soc. 2012 Jan 18;134(2):934-43.

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