

Diethyl succinate

Chemical Properties

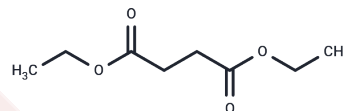
CAS No. : 123-25-1

Formula: C₈H₁₄O₄

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: 60 mg/mL (344.45 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481