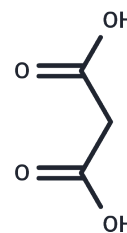


Malonic acid

Chemical Properties

CAS No. :	141-82-2
Formula:	C ₃ H ₄ O ₄
Molecular Weight:	104.06
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	Malonic acid (propanedioic acid) is the archetypal example of a competitive inhibitor: it acts against succinate dehydrogenase (complex II) in the respiratory electron transport chain. Malonic acid is found to be associated with malonyl-CoA decarboxylase deficiency, which is an inborn error of metabolism.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 250 mg/mL (2402.46 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.6098 mL	48.0492 mL	96.0984 mL
5 mM	1.922 mL	9.6098 mL	19.2197 mL
10 mM	0.961 mL	4.8049 mL	9.6098 mL
50 mM	0.1922 mL	0.961 mL	1.922 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

Ohdoi C, et al. Chemical diagnosis of Lesch-Nyhan syndrome using gas chromatography-mass spectrometry detection. J Chromatogr B Analyt Technol Biomed Life Sci. 2003 Jul 15;792(1):123-30.

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