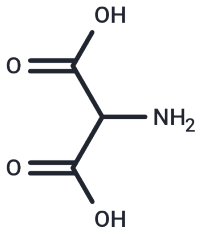
Data Sheet (Cat.No.T5244)

TargetMol

Aminomalonic acid

Chemical Properties



CAS No. : 1068-84-4

Formula: C3H5NO4

Molecular Weight: 119.08

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	Aminomalonic acid is an amino endogenous metabolite that acts as a potent inhibitor of L-asparagine synthetase from Leukemia 5178Y/AR and mouse pancreas in vitro (Leukemia 5178Y/AR: Ki= 0.0023 M, mouse pancreas: Ki= 0.0015 M). It has the potential to be used as a biomarker to distinguish between different stages of melanoma metastasis.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: Insoluble, H2O: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.3977 mL	41.9886 mL	83.9772 mL
5 mM	1.6795 mL	8.3977 mL	16.7954 mL
10 mM	0.8398 mL	4.1989 mL	8.3977 mL
50 mM	0.168 mL	0.8398 mL	1.6795 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

Copley SD, et al. Detection and possible origins of aminomalonic acid in protein hydrolysates. Anal Biochem. 1992 Feb 14;201(1):152-7.

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