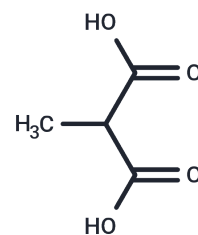


## Methylmalonic acid

## Chemical Properties

CAS No. :	516-05-2
Formula:	C <sub>4</sub> H <sub>6</sub> O <sub>4</sub>
Molecular Weight:	118.09
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Methylmalonic acid is an indicator of vitamin B-12 deficiency in cancer patients. Methylmalonic acid is a competitive succinate dehydrogenase inhibitor.
Targets(IC50)	Endogenous Metabolite,Dehydrogenase

## Solubility Information

Solubility	DMSO: 73.8 mg/mL (624.95 mM),Sonication is recommended. H <sub>2</sub> O: 100 mg/mL (846.81 mM),Sonication is recommended. Ethanol: 100 mg/mL (846.81 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	8.4681 mL	42.3406 mL	84.6812 mL
5 mM	1.6936 mL	8.4681 mL	16.9362 mL
10 mM	0.8468 mL	4.2341 mL	8.4681 mL
50 mM	0.1694 mL	0.8468 mL	1.6936 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.

## Reference

Vashi P, et al. Methylmalonic Acid and Homocysteine as Indicators of Vitamin B-12 Deficiency in Cancer. PLoS One. 2016 Jan 25;11(1):e0147843.

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