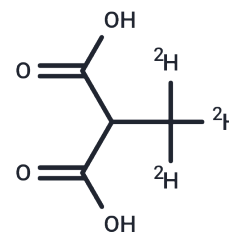


## 2-Methylpropanedioic acid-D3

### Chemical Properties

CAS No. : 42522-59-8  
 Formula: C<sub>4</sub>H<sub>3</sub>D<sub>3</sub>O<sub>4</sub>  
 Molecular Weight: 121.11  
 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	2-Methylpropanedioic acid-D3 is a deuterated compound of 2-Methylpropanedioic acid. 2-Methylpropanedioic acid (T4817) has a CAS number of 516-05-2. Methylmalonate (MMA) is a dicarboxylic acid that can be derived from methylmalonyl-coenzyme A. It is an indicator of Vitamin B-12 deficiency in cancer.
Targets(IC50)	Endogenous Metabolite

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.257 mL	41.2848 mL	82.5696 mL
5 mM	1.6514 mL	8.257 mL	16.5139 mL
10 mM	0.8257 mL	4.1285 mL	8.257 mL
50 mM	0.1651 mL	0.8257 mL	1.6514 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

- 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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