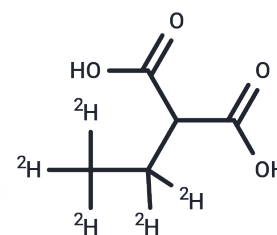


Ethyl-D5-malonic Acid

Chemical Properties

CAS No. : 66311-22-6
 Formula: C₅D₅H₃O₄
 Molecular Weight: 137.15
 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	Ethyl-D5-malonic Acid is a deuterated compound of Ethyl-malonic Acid. Ethyl-malonic Acid (T5279) has a CAS number of 601-75-2. Ethylmalonic acid can be found in blood, cerebrospinal fluid (CSF), and urine, as well as in human fibroblasts, prostate, and skeletal muscle tissues. Moreover, ethylmalonic acid is found to be associated with anorexia nervosa and malonyl-CoA decarboxylase deficiency. Ethylmalonic acid is a non-carcinogenic potentially toxic compound. Chronically high levels of ethylmalonic acid are associated with at least two inborn errors of metabolism, including short chain acyl CoA dehydrogenase deficiency (SCAD deficiency) and ethylmalonic encephalopathy.
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.2913 mL	36.4564 mL	72.9129 mL
5 mM	1.4583 mL	7.2913 mL	14.5826 mL
10 mM	0.7291 mL	3.6456 mL	7.2913 mL
50 mM	0.1458 mL	0.7291 mL	1.4583 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.

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