Data Sheet (Cat.No.TQ0024)

TargetMol

3-Hydroxyglutaric acid

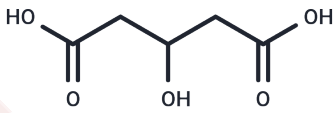
Chemical Properties

CAS No. : 638-18-6

Formula: C5H8O5

Molecular Weight: 148.11

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	3-Hydroxyglutaric acid is one of several metabolites produced when insufficient levels of GCDH are available. It is used as a biomarker of GCDH deficiency.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMF: 30 mg/mL (202.55 mM),Sonication is recommended. DMSO: 50 mg/mL (337.59 mM),Sonication is recommended. Ethanol: 30 mg/mL (202.55 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.7517 mL	33.7587 mL	67.5174 mL
5 mM	1.3503 mL	6.7517 mL	13.5035 mL
10 mM	0.6752 mL	3.3759 mL	6.7517 mL
50 mM	0.135 mL	0.6752 mL	1.3503 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

Rosa RB, et al. Evidence that 3-hydroxyglutaric acid interacts with NMDA receptors in synaptic plasma membranes from cerebral cortex of young rats. Neurochem Int. 2004 Dec;45(7):1087-94.

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