

Suberic acid

Chemical Properties

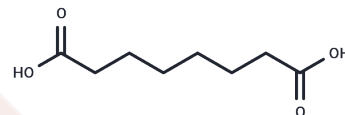
CAS No. : 505-48-6

Formula: C₈H₁₄O₄

Molecular Weight: 174.19

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Suberic acid (1,8-Octanedioic acid) is present in the urine of patients with fatty acid oxidation disorders. A metabolic breakdown product derived from oleic acid. Elevated levels of this unsaturated dicarboxylic acid are found in individuals with medium-chain acyl-CoA dehydrogenase deficiency (MCAD). Suberic acid is also associated with carnitine-acylcarnitine translocase deficiency, malonyl-CoA decarboxylase deficiency.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 55 mg/mL (315.75 mM), Sonication is recommended. H ₂ O: 1.6 mg/mL (9.19 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	5.7409 mL	28.7043 mL	57.4086 mL
5 mM	1.1482 mL	5.7409 mL	11.4817 mL
10 mM	0.5741 mL	2.8704 mL	5.7409 mL
50 mM	0.1148 mL	0.5741 mL	1.1482 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

Gregersen N, et al. General (medium-chain) acyl-CoA dehydrogenase deficiency (non-ketotic dicarboxylic aciduria): quantitative urinary excretion pattern of 23 biologically significant organic acids in three cases. Clin Chim Acta. 1983 Aug 15;132(2):181-91.

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