

2,5-Furandicarboxylic acid

Chemical Properties

CAS No. :	3238-40-2
Formula:	C ₆ H ₄ O ₅
Molecular Weight:	156.093
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	2,5-Furandicarboxylic acid (Dehydromucic Acid) is a normal urinary metabolite in humans. 2,5-Furandicarboxylic acid is also a microbial metabolite, a product of the oxidation of hydroxymethylfurfural (HMF) by the enzyme furfural/HMF oxidoreductase which is found in the bacterium <i>Cupriavidus basilensis</i> .
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: 1.57 mg/mL (10.06 mM), Sonication is recommended. DMSO: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.4066 mL	32.0328 mL	64.0656 mL
5 mM	1.2813 mL	6.4066 mL	12.8131 mL
10 mM	0.6407 mL	3.2033 mL	6.4066 mL
50 mM	0.1281 mL	0.6407 mL	1.2813 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

Boulat O, et al. Organic acids in the second morning urine in a healthy Swiss paediatric population. Clin Chem Lab Med. 2003 Dec;41(12):1642-58.

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