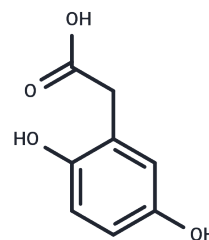


Homogentisic acid

Chemical Properties

CAS No. :	451-13-8
Formula:	C ₈ H ₈ O ₄
Molecular Weight:	168.15
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	1. Homogentisic acid (2,5-dihydroxyphenylacetic acid) shows interesting antioxidant and antiradical activities, and protective effect against thermal-cholesterol degradation, comparable to those of well known antioxidants. 2. Homogentisic acid is the primary precursor of melanin synthesis in <i>Vibrio cholerae</i> , a <i>Hyphomonas</i> strain, and <i>Shewanella colwelliana</i> . 3. A derivative of homogentisic acid which inhibits Pfnek-1 with an IC(5) around 1.8 μM, this product is moderately active in vitro against a FcB1 P. falciparum strain (IC(5) = 12 μM).
Targets(IC50)	Antioxidant, Endogenous Metabolite

Solubility Information

Solubility	DMSO: 31 mg/mL (184.36 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.9471 mL	29.7354 mL	59.4707 mL
5 mM	1.1894 mL	5.9471 mL	11.8941 mL
10 mM	0.5947 mL	2.9735 mL	5.9471 mL
50 mM	0.1189 mL	0.5947 mL	1.1894 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

Hughes A T , Milan A M , Davison A S , et al. Serum markers in alkaptonuria: simultaneous analysis of homogentisic acid, tyrosine and nitrosonone by liquid chromatography tandem mass spectrometry[J]. Annals of Clinical Biochemistry: An international journal of biochemistry and laboratory medicine, 2015:0004563215571969.

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