

Melilotic acid

Chemical Properties

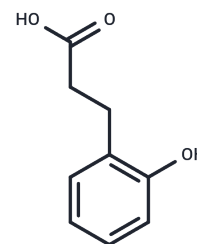
CAS No. : 495-78-3

Formula: C₉H₁₀O₃

Molecular Weight: 166.17

Appearance: Solid

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



Biological Description

Description	Melilotic acid (3-(2-Hydroxyphenyl)propionic acid), also known as melilotic acid or melilotate. Within the cell, 3-(2-hydroxyphenyl)propanoic acid is primarily located in the cytoplasm. Melilotic acid can be biosynthesized from propionic acid. Outside of the human body, 3-(2-hydroxyphenyl)propanoic acid can be found in a number of food items such as herbs and spices, red beetroot, chinese cinnamon, and bilberry. This makes 3-(2-hydroxyphenyl)propanoic acid a potential biomarker for the consumption of these food products.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 50 mg/mL (300.9 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	6.0179 mL	30.0897 mL	60.1793 mL
5 mM	1.2036 mL	6.0179 mL	12.0359 mL
10 mM	0.6018 mL	3.009 mL	6.0179 mL
50 mM	0.1204 mL	0.6018 mL	1.2036 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

Sinha R , Ahn J , Sampson J N , et al. Fecal Microbiota, Fecal Metabolome, and Colorectal Cancer Interrelations[J]. PLOS ONE, 2016, 11(3):e0152126.

Goedert J J , Sampson J N , Moore S C , et al. Fecal metabolomics: assay performance and association with colorectal cancer[J]. Carcinogenesis, 2014, 35(9):2089-2096.

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