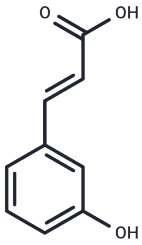
Data Sheet (Cat.No.T19408)

TargetMol

m-Coumaric acid

Chemical Properties



CAS No. : 588-30-7

Formula: C9H8O3

Molecular Weight: 164.158

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	Turanose is a naturally occurring isomer of sucrose found in honey. It has anti-inflammatory and fat-regulating activities. It has research potential for obesity and related chronic diseases.
Targets(IC50)	Antioxidant,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 333.3 mg/mL (2030.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (12.18 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (60.92 mM),Solution. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0916 mL	30.4581 mL	60.9162 mL
5 mM	1.2183 mL	6.0916 mL	12.1832 mL
10 mM	0.6092 mL	3.0458 mL	6.0916 mL
50 mM	0.1218 mL	0.6092 mL	1.2183 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

Ito H, et al. Chlorogenic acid and its metabolite m-coumaric acid evoke neurite outgrowth in hippocampal neuronal cells. Biosci Biotechnol Biochem. 2008 Mar;72(3):885-8.

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