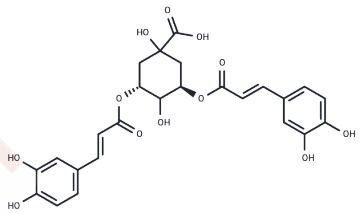
Data Sheet (Cat.No.T5098)

TargetMol

Isochlorogenic acid A

Chemical Properties



CAS No. : 2450-53-5

Formula: C25H24O12

Molecular Weight: 516.45

Storage: Store under nitrogen,Keep away from moisture,Store at low temperature
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	Isochlorogenic acid A (3,5-Dicaffeoylquinic acid), a natural phenolic acid, exhibits antioxidant and anti-inflammatory properties.
Targets(IC50)	Reactive Oxygen Species,HIV Protease,Endogenous Metabolite,Antibacterial,HBV,ROS

Solubility Information

Solubility	H2O: 1.36 mg/mL (2.63 mM),Sonication is recommended. DMSO: 240 mg/mL (464.71 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 (3.87 mM),Sonication is recommended. *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	1.9363 mL	9.6815 mL	19.363 mL
5 mM	0.3873 mL	1.9363 mL	3.8726 mL
10 mM	0.1936 mL	0.9681 mL	1.9363 mL
50 mM	0.0387 mL	0.1936 mL	0.3873 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

Malarz J, et al. Long-term cultured hairy roots of chicory-a rich source of hydroxycinnamates and 8-deoxylactucin glucoside. Appl Biochem Biotechnol. 2013 Dec;171(7):1589-601.

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Zhang YH, et al. 3,5-Dicaffeoylquinic acid isolated from Artemisia argyi and its ester derivatives exert anti-leucyl-tRNA synthetase of Giardia lamblia (GlLeuRS) and potential anti-giardial effects. Fitoterapia. 2012 Oct;83(7):1281-5.

Wan C, et al. Isolation and identification of phenolic compounds from Gynura divaricata leaves. Pharmacogn Mag. 2011 Apr;7(26):101-8.