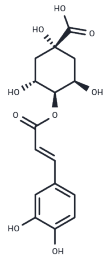
Data Sheet (Cat.No.T6S1537)

TargetMol

Cryptochlorogenic acid

Chemical Properties



CAS No. : 905-99-7

Formula: C16H18O9

Molecular Weight: 354.31

Storage: Keep away from direct sunlight,Keep away from moisture
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	1. Cryptochlorogenic acid (4-O-Caffeoylquinic acid) has antioxidant activity.
Targets(IC50)	Antioxidant,NF-κB,HIF/HIF Prolyl-Hydroxylase,Nrf2,Endogenous Metabolite,mTOR

Solubility Information

Solubility	DMSO: 260 mg/mL (733.82 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: 1 mg/mL (2.82 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	2.8224 mL	14.1119 mL	28.2239 mL
5 mM	0.5645 mL	2.8224 mL	5.6448 mL
10 mM	0.2822 mL	1.4112 mL	2.8224 mL
50 mM	0.0564 mL	0.2822 mL	0.5645 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

Nakatani N , Kayano S I , Kikuzaki H , et al. Identification, quantitative determination, and antioxidative activities of chlorogenic acid isomers in prune (Prunus domestica L.)[J]. J Agric Food Chem, 2000, 48(11):5512-5516.

Jiang H, Chen J, Li X, et al. Systematic Identification of Chemical Components in Fufang Shuanghua Oral Liquid and Screening of Potential Active Components Against SA¸ n Protease. Journal of Pharmaceutical and Biomedical Analysis. 2022: 115118.

Jiang H, Chen J, Li X, et al.Systematic identification of chemical components in Fufang Shuanghua oral liquid and screening of potential active components against SARS-CoV-2 protease.Journal of Pharmaceutical and Biomedical Analysis.2023, 223: 115118.