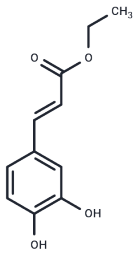
Data Sheet (Cat.No.T3S0013)

TargetMol

Ethyl trans-caffeate

Chemical Properties



CAS No. : 66648-50-8

Formula: C11H12O4

Molecular Weight: 208.21

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	1. Ethyl trans-caffeate (Caffeic Acid Ethyl Ester) has anti-inflammatory activity. 2. Ethyl trans-caffeate may as a promising natural compound for future application in chronic liver disease. 3. Ethyl trans-caffeate is a potent chemopreventive compound against skin carcinogenesis caused by solar UV exposure. 4. Ethyl trans-caffeate is the high-resolution structures of representative inhibitors in complex with human pancreatic α-amylase. 5. Ethyl trans-caffeate strongly inhibits neoplastic transformation of JB6 Cl41 cells without toxicity. PI3K, ERK1/2, and p38 kinase activities were suppressed by direct binding with HOEC in vitro.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 50 mg/mL (240.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8028 mL	24.0142 mL	48.0284 mL
5 mM	0.9606 mL	4.8028 mL	9.6057 mL
10 mM	0.4803 mL	2.4014 mL	4.8028 mL
50 mM	0.0961 mL	0.4803 mL	0.9606 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

Lee H N , Kim J K , Kim J H , et al. A mechanistic study on the anti-cancer activity of ethyl caffeate in human ovarian cancer SKOV-3 cells[J]. Chemico-Biological Interactions, 2014, 219:151-158.

Fernández-Pérez R, Ayuso S, Moreta C, et al.Chemical Profile and Antibacterial Activity of Vitis vinifera L. cv Graciano Pomace Extracts Obtained by Green Supercritical CO2 Extraction Method Against Multidrug-Resistant Escherichia coli Strains.Foods.2024, 14(1): 17.

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