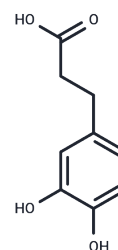


Dihydrocaffeic acid

Chemical Properties

CAS No. :	1078-61-1
Formula:	C ₉ H ₁₀ O ₄
Molecular Weight:	182.17
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Dihydrocaffeic acid is a metabolite of chlorogenic acid, a well-known antioxidant component with antioxidant, anti-Alzheimer's disease, neuroprotective, arousal and lipid-lowering effects.
Targets(IC50)	Antioxidant,Endogenous Metabolite,p38 MAPK

Solubility Information

Solubility	DMSO: 55 mg/mL (301.92 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	5.4894 mL	27.4469 mL	54.8938 mL
5 mM	1.0979 mL	5.4894 mL	10.9788 mL
10 mM	0.5489 mL	2.7447 mL	5.4894 mL
50 mM	0.1098 mL	0.5489 mL	1.0979 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

- Pérez-Alvarez V, et al. Structure-hepatoprotective activity relationship of 3,4-dihydroxycinnamic acid (caffeic acid) derivatives. J Appl Toxicol. 2001 Nov-Dec;21(6):527-31.
- Huang J, et al. Antioxidant effects of dihydrocaffeic acid in human EA.hy926 endothelial cells. J Nutr Biochem. 2004 Dec;15(12):722-9.
- Poquet L, et al. Investigation of the metabolic fate of dihydrocaffeic acid. Biochem Pharmacol. 2008 Mar 1;75(5):1218-29.
- Aoki R, et al. J Neurosci. 2011 Nov 16; 31(46): 16603-10.

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