

1-Caffeoylquinic acid

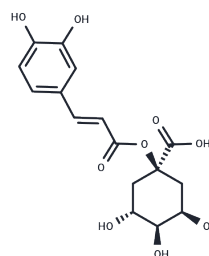
Chemical Properties

CAS No. : 1241-87-8

Formula: C₁₆H₁₈O₉

Molecular Weight: 354.31

Storage: Keep away from moisture, Keep away from direct sunlight, 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	1-Caffeoylquinic acid is an important intermediate in lignin biosynthesis. 1-Caffeoylquinic acid has anti-influenza, and antioxidant activities, it also slows the release of glucose into the bloodstream after a meal.
Targets(IC50)	NF-κB, PD-1/PD-L1
In vitro	Thirteen phenolic compounds (3-caffeoylquinic acid, 5-caffeoylquinic acid, 1-Caffeoylquinic acid, 5-p-coumaroylquinic acid, isoorientin-2'-O-rhamnoside, isoorientin, orientin-2'-O-rhamnoside, orientin, 1-p-coumaroylquinic acid, vitexin-2'-O-rhamnoside, isovitexin-2'-O-rhamnoside, vitexin and isovitexin) were identified in <i>T. hemsleyanum</i> leaves for the first time, and six of them were quantified using a combination of LC-QTOF-MS and LC-QqQ-MS techniques. It was found that 80% methanol extract exhibited the highest antioxidant activities.

Solubility Information

Solubility	DMSO: 9 mg/mL (25.4 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	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

Qualitative and quantitative analysis of phenolics in *Tetrastigma hemsleyanum* and their antioxidant and antiproliferative activities. *J Agric Food Chem.* 2013 Nov 6;61(44):10507-15.

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