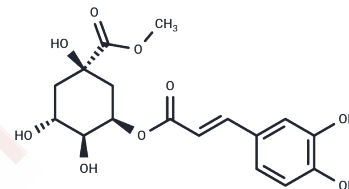


Neochlorogenic acid methyl ester

Chemical Properties

CAS No. :	123410-65-1
Formula:	C ₁₇ H ₂₀ O ₉
Molecular Weight:	368.34
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	Neochlorogenic acid methyl ester (5-O-Caffeoylquinic acid methyl ester), derived from Artemisia capillaris and black chokeberry [Aronia melanocarpa] fruits, exhibits weak anti-HBV activity, antioxidant properties, and quinone reductase activity with a CD of 6.7 μM.
Targets(IC50)	Antioxidant,HBV

Solubility Information

Solubility	DMSO: 55 mg/mL (149.32 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: 2.5 mg/mL (6.79 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7149 mL	13.5744 mL	27.1488 mL
5 mM	0.543 mL	2.7149 mL	5.4298 mL
10 mM	0.2715 mL	1.3574 mL	2.7149 mL
50 mM	0.0543 mL	0.2715 mL	0.543 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

Zhao Y, et al. UFLC/MS-IT-TOF guided isolation of anti-HBV active chlorogenic acid analogues from *Artemisia capillaris* as a traditional Chinese herb for the treatment of hepatitis. *J Ethnopharmacol.* 2014 Oct 28;156:147-54.

Li J, et al. Antioxidant and quinone reductase-inducing constituents of black chokeberry (*Aronia melanocarpa*) fruits. *J Agric Food Chem.* 2012 Nov 21;60(46):11551-9.

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