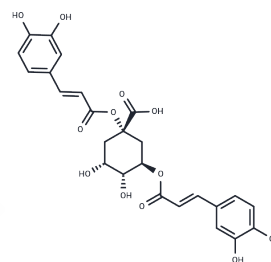


1,3-Dicaffeoylquinic acid

Chemical Properties

CAS No. :	19870-46-3
Formula:	C ₂₅ H ₂₄ O ₁₂
Molecular Weight:	516.45
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	1,3-Dicaffeoylquinic acid (CYNARIN) is a natural product. It shows antioxidant and choleric properties and is a potential immunosuppressive agent.
Targets(IC50)	Reactive Oxygen Species,Akt,PI3K,ROS
In vivo	CYNARIN have neuroprotective effects.CYNARIN prevents A β (42)-induced neurotoxicity through the activation of PI3K/Akt followed by the stimulation of Trk A, then the inhibition of GSK3 β as well as the modulation of Bcl-2/Bax.
Animal Research	The neuroprotective effects of 1,5-DQA against amyloid β (1-42) (A β (42))-induced neurotoxicity in primary neuronal culture. To evaluate the neuroprotective effects of 1,5-DQA, primary cultured cortical neurons from neonate rats were pretreated with 1,5-DQA for 2 hours and then treated with 40 μ mol/L A β (42) for 6 hours. Cell counting kit-8, Hoechst staining and Western blotting were used for detecting the protective mechanism. Comparisons between two groups were evaluated by independent t test, and multiple comparisons were analyzed by one-way analysis of variance (ANOVA).

Solubility Information

Solubility	DMSO: 240 mg/mL (464.71 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 mg/mL (3.87 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	1.9363 mL	9.6815 mL	19.363 mL
5 mM	0.3873 mL	1.9363 mL	3.8726 mL
10 mM	0.1936 mL	0.9681 mL	1.9363 mL
50 mM	0.0387 mL	0.1936 mL	0.3873 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

XIAOHai-bing, CAO Xu, WANG Lei, et al. 1,5-dicaffeoylquinic acid protects primary neurons from amyloid β 1-42-induced apoptosis via PI3K/Akt signaling pathway[J]. 2011, 124(17):2628-2635.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481