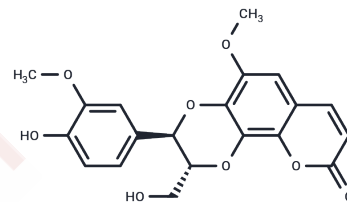


Cleomiscosin A

Chemical Properties

CAS No. :	76948-72-6
Formula:	C ₂₀ H ₁₈ O ₈
Molecular Weight:	386.35
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	Cleomiscosin A is derived from Acer okamotoanum leaf and twig and shows inhibitory activity to TNF- α secretion of the mouse peritoneal macrophages. Cleomiscosin A can be used in studies about the prevention of LDL oxidation in atherosclerotic lesions.
Targets(IC50)	Antioxidant,LDL,TNF
In vitro	Cleomiscosin A protects against the oxidative modification of apoB-100 induced by either Cu ²⁺ or HOCl with IC ₅₀ s of 13.4 and 8.1 μ M, respectively[3].

Solubility Information

Solubility	DMSO: 1.9 mg/mL (4.92 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	2.5883 mL	12.9416 mL	25.8833 mL
5 mM	0.5177 mL	2.5883 mL	5.1767 mL
10 mM	0.2588 mL	1.2942 mL	2.5883 mL
50 mM	0.0518 mL	0.2588 mL	0.5177 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

Sharma S, et al. Synthesis and anti-inflammatory activity of derivatives of coumarino-lignoid, cleomiscosin A and its methyl ether. *Eur J Med Chem.* 2010;45(11):5150-5156.

Ma M, et al. [Chemical constituents from branch of *Macaranga adenantha* and their TNF-alpha inhibitory activity]. *Zhongguo Zhong Yao Za Zhi.* 2007 Jun;32(12):1175-9. Chinese.

Jin W, et al. Antioxidant activity of cleomiscosins A and C isolated from *Acer okamotoanum*. *Arch Pharm Res.* 2007 Mar;30(3):275-81.

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