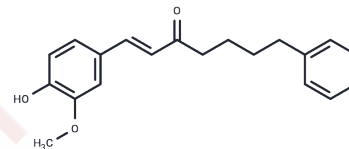


Yakuchinone B

Chemical Properties

CAS No. :	81840-57-5
Formula:	C ₂₀ H ₂₂ O ₃
Molecular Weight:	310.39
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	Yakuchinone B is an acyl-CoA:cholesterol O-acyltransferase (ACAT) inhibitor with cholesterol-lowering activity, identified in the seeds of the Zingiberaceae family. It inhibits rat liver ACAT with an IC ₅₀ value of 20.6 μM. Yakuchinone B is a potential candidate for research into hypercholesterolemia and atherosclerosis.
Targets(IC ₅₀)	Apoptosis,Antioxidant,NOS,Acyltransferase,COX,ROS,TNF,CAT

Solubility Information

Solubility	DMSO: 100 mg/mL (322.18 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	3.2218 mL	16.1088 mL	32.2175 mL
5 mM	0.6444 mL	3.2218 mL	6.4435 mL
10 mM	0.3222 mL	1.6109 mL	3.2218 mL
50 mM	0.0644 mL	0.3222 mL	0.6444 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

Ohishi K, et al. Structure-activity relationships of N-(3,5-dimethoxy-4-n-octyloxycinnamoyl)-N'-(3,4-dimethylphenyl)piperazine and analogues as inhibitors of acyl-CoA: cholesterol O-acyltransferase. Chem Pharm Bull (Tokyo). 2001 Jul;49(7):830-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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