

Catalog Number: CM01018

产品信息

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CM01018

CAS号:
58749-22-7

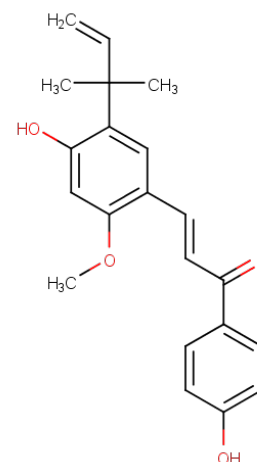
分子式:
C₂₁H₂₂O₄

主要靶点:
Autophagy|Caspase|UGT

主要通路:
自噬|凋亡|代谢|蛋白酶体

分子量:
338.4

溶解度:
DMSO:67 mg/mL (197.99 mM), Ethanol:67 mg/mL (197.99 mM), H₂O:<1 mg/mL, Chloroform:Soluble



靶点活性

UGT1A1:0.97 μM

体外活性

Licochalcone A markedly inhibits the in vitro growth of *L. major* amastigotes in human MDMs and U937 cells. [1] Licochalcone A shows antibacterial effects against all gram-positive bacteria tested and especially against all *Bacillus* spp. Tested with MICs of 2 to 3 micrograms/mL [3] In CT-26 colon cancer cells, Licochalcone A reduces the cell viability and DNA synthesis. [4] Licochalcone A also interferes with MAPK signaling cascades, initiates ROS generation, induces oxidative stress and consequently causes BGC cell apoptosis. [5]

体内活性

In mice infected with *L. major*, licochalcone A (5 mg/kg, i.p.) completely prevents lesion development. In mice infected with *L. donovani*, licochalcone A (150 mg/kg, p.o.) results in > 65 and 85% reductions of parasite loads in the liver and the spleen, respectively. [2] In CT-26 cell-inoculated Balb/c mice, licochalcone A (1 mg/kg, p.o.) inhibits the tumor growth, and alleviates cisplatin-induced nephrotoxicity and hepatotoxicity. [4]

细胞实验

The viability of CT-26 mouse colon cancer cells is determined via a MTT assay. In brief, colon cancer cells are seeded onto each well of a 96-well plate with DMEM containing 10% FBS and cultured to adhere overnight. The cells are then treated with various concentrations of LCA in serum-free medium for 24 and 72 hr, respectively. Twenty microlitres of a MTT solution (5 mg/ml) is added to each well, and the cells are incubated for 4 hr at 37°. The medium is then removed, and 200 μL of dimethyl sulfoxide is added to each well. The absorbance is determined at 570 nm using a microplate reader.(Only for Reference)

描述

Licochalcone A is a flavonoid isolated from the famous Chinese medicinal herb *Glycyrrhiza uralensis* Fisch with obvious anti-cancer effects.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years