

Catalog Number: CM10565

产品信息

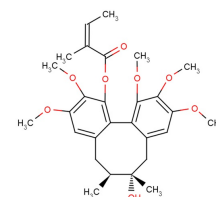
Catalog Number:
CM10565

CAS号:
66056-22-2

分子式:
C₂₈H₃₆O₈
主要靶点:
PPAR

主要通路:
代谢|DNA损伤和修复

分子量:
500.58

溶解度:
DMSO:22.5 mg/mL (44.95 mM)


体外活性

The experiments were carried out to investigate the cytotoxic activity of the extracts and to identify the active principles from the extract, which could support the traditional application of treating cancer. Dried and ground plant material was extracted with water and ethanol and further purified by HPLC. The cytotoxicity of the extracts, fractions and pure compounds were evaluated for their abilities to inhibit the proliferation of breast cancer cells MCF7 and tongue cancer cells CAL27. The cytotoxicity of the pure compounds were also tested against Human Embryonic Kidney cell line HEK293. Both aqueous and ethanol extracts showed activities against MCF7 and CAL27 cancer cells. Bioassay-guided fractionation and purification of the extracts resulted in six active principles, including five dibenzocyclooctene lignans namely gomisin H (1), schisandrin (2), Angeloylgomisin H (3), (+)-gomisin M2 (4) and (-)-rubschisandrin (5), and one triterpenoid, schisanol (6). Compounds 1-3 showed moderate cytotoxic activities with IC₅₀ values ranging from 100 to 200 μg/mL against MCF7 and CAL27 cell lines. Dioxane containing lignans 4-5 and triterpenoid 6 were 10 times more active with IC₅₀ values of 14.5, 13.4, 10.6 μg/mL against MCF7, and 21.2, 17.9, 11.7 μg/mL against CAL27, respectively. Compounds 1-6 also showed cytotoxicity against HEK293 with IC₅₀ values ranging from 10 to 150 μg/mL, respectively[1]

描述

Angeloylgomisin H shows moderate cytotoxic activities with IC₅₀ values ranging from 100 to 200 μg/mL against MCF7, HEK293 and CAL27 cell lines.

储存

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