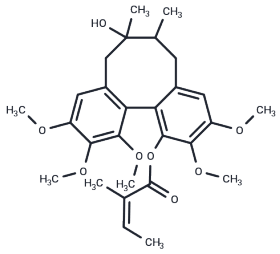
Data Sheet (Cat.No.TN1018)

TargetMol

Angeloylgomisin H

Chemical Properties



CAS No. : 66056-22-2

Formula: C28H36O8

Molecular Weight: 500.58

Storage: Keep away from direct sunlight,Keep away from moisture
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	Angeloylgomisin H shows moderate cytotoxic activities with IC50 values ranging from 100 to 200 ug/mL against MCF7, HEK293 and CAL27 cell lines.
Targets(IC50)	PPAR
In vitro	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 200μg/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, 10.6μg/mL against MCF7, and 21.2, 17.9, 11.7μg/mL against CAL27, respectively. Compounds 1-6 also showed cytotoxicity against HEK293 with IC50 values ranging from 10 to 150μg/mL, respectively[1]

Solubility Information

Solubility	DMSO: 150 mg/mL (299.65 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: 10 mg/mL (19.98 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (19.98 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *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*

In vivo Formulation	*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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9977 mL	9.9884 mL	19.9768 mL
5 mM	0.3995 mL	1.9977 mL	3.9954 mL
10 mM	0.1998 mL	0.9988 mL	1.9977 mL
50 mM	0.040 mL	0.1998 mL	0.3995 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

Cytotoxic ethnic Yao medicine Baizuan, leaves of Schisandra viridis A. C. Smith.J Ethnopharmacol. 2016 Dec 24; 194:146-152.