Data Sheet (Cat.No.TN2272)

TargetMol
A DRUG SCREENING EXPERT

Tigloylgomisin H

Chemical Properties

CAS No.:	66069-55-4
Formula:	C28H36O8
Molecular Weight:	500.59
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Tigloylgomisin H represents a potential liver cancer prevention agent, it can significantly induce quinone reductase (QR) activity in Hepa1c1c7 mouse hepatocarcinoma cells, it functions as a novel monofunctional inducer that specifically upregulates phase II enzymes through the Nrf2-ARE pathway.
Targets(IC_{50})	Nrf2: None
In vitro	In the current study, nine lignans were isolated from S. chinensis and tested for their ability to induce quinone reductase (QR) activity in Hepa1c1c7 mouse hepatocarcinoma cells. Tigloylgomisin H (TGH) and angeloylgomisin H (AGH) significantly induced QR activity and exhibited a relatively high chemoprevention index (CI) (10.80 and 4.59, respectively) as compared to control. TGH also induced QR activity in BPrc1 mouse hepatocarcinoma cells as well, which are defective in aryl hydrocarbon nuclear translocator (Arnt). In HepG2 human hepatocarcinoma cells, TGH significantly activated gene expression mediated by the antioxidant response element (ARE), a key regulatory region in the promoters of detoxification enzymes, through the nuclear accumulation of Nrf2.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.998 mL	9.988 mL	19.976 mL
5 mM	0.4 mL	1.998 mL	3.995 mL
10 mM	0.2 mL	0.999 mL	1.998 mL
50 mM	0.04 mL	0.2 mL	0.4 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Induction of the phase II detoxification enzyme NQO1 in hepatocarcinoma cells by lignans from the fruit of Schisandra chinensis through nuclear accumulation of Nrf2.Planta Med. 2009 Oct;75(12):1314-8.

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