

Leachianone A

Chemical Properties

CAS No.:	97938-31-3
Formula:	C ₂₆ H ₃₀ O ₆
Molecular Weight:	438.5
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Leachianone A is a potential antitoxic agent, it shows inhibitory effects on cadmium- Induced cytotoxicity.
Targets(IC ₅₀)	SGLT: None
In vitro	In this study, Leachianone A, isolated from Radix Sophorae, possessed a profound cytotoxic activity against human hepatoma cell line HepG2 in vitro, with an IC(50) value of 3.4microg/ml post-48-h treatment. Its action mechanism via induction of apoptosis involved both extrinsic and intrinsic pathways. Its anti-tumor effect was further demonstrated in vivo by 17-54% reduction of tumor size in HepG2-bearing nude mice, in which no toxicity to the heart and liver tissues was observed[1]

Solubility Information

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

	1mg	5mg	10mg
1 mM	2.281 mL	11.403 mL	22.805 mL
5 mM	0.456 mL	2.281 mL	4.561 mL
10 mM	0.228 mL	1.14 mL	2.281 mL
50 mM	0.046 mL	0.228 mL	0.456 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Leachianone A as a potential anti-cancer drug by induction of apoptosis in human hepatoma HepG2 cells.Cancer Lett. 2007 Aug 18;253(2):224-35.

Inhibitors · Natural Compounds · Compound Libraries

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