

alpha-Chaconine

Chemical Properties

CAS No.:	20562-03-2
Formula:	C ₄₅ H ₇₃ NO ₁₄
Molecular Weight:	852.06
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Alpha-Chaconine has anti-inflammatory effect, associated with the suppression of AP-1, and supports its possible therapeutic role for the treatment of sepsis. Alpha-Chaconine also has cytotoxic effects.
Targets(IC ₅₀)	COX: None AP-1: None IL Receptor: None
In vitro	This study confirmed their synergistic cytotoxic effects on C6 rat glioma cells by three different cell viability tests, namely WST-1 (water-soluble tetrazolium) assay sensitive to intracellular NADH concentration, menadione-catalysed chemiluminescent assay depending on both NAD(P)H concentration and NAD(P)H:quinone reductase activity, and LDH (lactate dehydrogenase) assay sensitive to the release of LDH from damaged cells. The maximum cytotoxic effect was observed at a ratio of 1:1 between α -solanine and alpha-Chaconine at micromolar concentrations.

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	1.174 mL	5.868 mL	11.736 mL
5 mM	0.235 mL	1.174 mL	2.347 mL
10 mM	0.117 mL	0.587 mL	1.174 mL
50 mM	0.023 mL	0.117 mL	0.235 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. Synergistic cytotoxicity induced by α -solanine and α -chaconine. Food Chem. 2013 Nov 15;141(2):669-74.

Inhibitors · Natural Compounds · Compound Libraries

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