Data Sheet (Cat.No.T4S0867)

TargetMol

Pogostone

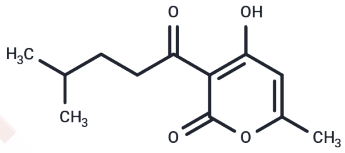
Chemical Properties

CAS No. : 23800-56-8

Formula: C12H16O4

Molecular Weight: 224.25

Storage: 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	1. Pogostone (DHELWANGIN) possesses potent anti-bacterial and anti-fungal activities, such as gram negative bacteria , gram positive bacteria, Escherichia coli. 2. Pogostone exhibits an immunosuppressive property by directly blocking T cell proliferation as well as altering inflammatory cytokine profile. 3. Pogostone could exert a gastro-protective effect against gastric ulceration, and the underlying mechanism might be associated with the stimulation of PGE2, improvement of antioxidant and anti-inflammatory status, as well as preservation of NP-SH.
Targets(IC50)	Apoptosis,Antibacterial,Autophagy

Solubility Information

Solubility	DMSO: 250 mg/mL (1114.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (11.15 mM),Sonication is recommended. *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 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	4.4593 mL	22.2965 mL	44.5931 mL
5 mM	0.8919 mL	4.4593 mL	8.9186 mL
10 mM	0.4459 mL	2.2297 mL	4.4593 mL
50 mM	0.0892 mL	0.4459 mL	0.8919 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

Immunosuppressive activity of pogostone on T cells: Blocking proliferation via S phase arrest[J]. International Immunopharmacology, 2015, 26(2):328-337.