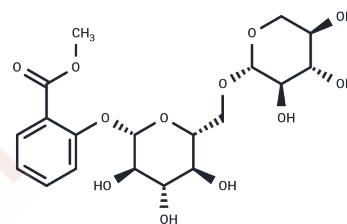


Gaultherin

Chemical Properties

CAS No. :	490-67-5
Formula:	C ₁₉ H ₂₆ O ₁₂
Molecular Weight:	446.4
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	Gaultherin has analgesic, and anti-inflammatory activities. Gaultherin lacks gastric ulcerogenic effect, because of it released salicylate in intestine slowly, not in stomach and it left the cyclooxygenase-1 unaffected, which was the source of cytoprotective prostaglandins in gastric epithelium.
Targets(IC50)	MMP,NF-κB,COX,Interleukin,Monoamine Oxidase,p38 MAPK,ROS,TNF
In vitro	The synthesis of Gaultherin (1) and its analogs was carried out to provide 11 glycosides under phase-transfer catalytic conditions. METHODS AND RESULTS: The activities of all synthesized compounds were evaluated by nitric oxide production inhibitory assay in vitro. Methyl 2-O-(4-O-β-d-galactopyranosyl)-β-d-glucopyranosylbenzoate (5f) showed significantly anti-nociceptive and anti-inflammatory effects by the evaluation in vivo. Structure-activity relationships within these compounds were discussed.

Solubility Information

Solubility	DMSO: 50 mg/mL (112.01 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: 2 mg/mL (4.48 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2401 mL	11.2007 mL	22.4014 mL
5 mM	0.448 mL	2.2401 mL	4.4803 mL
10 mM	0.224 mL	1.1201 mL	2.2401 mL
50 mM	0.0448 mL	0.224 mL	0.448 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

Synthesis and anti-nociceptive and anti-inflammatory effects of gaultherin and its analogs. J Asian Nat Prod Res. 2011 Sep;13(9):817-25.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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