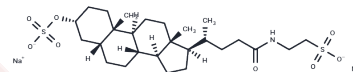


Tauroolithocholic Acid 3-sulfate sodium salt

Chemical Properties

CAS No. :	64936-83-0
Formula:	C ₂₆ H ₄₃ NNa ₂ O ₈ S ₂
Molecular Weight:	607.73
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Tauroolithocholic Acid 3-sulfate sodium salt is a GPR39 agonist. In the absence of Zn ²⁺ , its EC ₅₀ values are 71.6 μM and 69.4 μM in M39-20 and hGPR39-2 cells, respectively; in the presence of Zn ²⁺ , the values are 9 μM and 9.6 μM, respectively. Tauroolithocholic Acid 3-sulfate sodium salt activates the GPR39 receptor and mediates intracellular calcium signaling pathways independently of the Zn ²⁺ -binding sites H17 and H19, and can be used in research on gallbladder-related diseases.
Targets(IC50)	GHSR
In vitro	In the absence of Zn ²⁺ , the EC ₅₀ values of Tauroolithocholic Acid 3-sulfate sodium salt on M39-20 and hGPR39-2 cells were 71.6 μM and 69.4 μM, respectively; in the presence of Zn ²⁺ , the EC ₅₀ values were 9 μM and 9.6 μM, respectively.

Solubility Information

Solubility	Ethanol: 1 mg/mL (1.65 mM),Sonication is recommended. DMSO: 20 mg/mL (32.91 mM),Sonication is recommended. PBS (pH 7.2): 1 mg/mL (1.65 mM),Sonication is recommended. DMF: 25 mg/mL (41.14 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: 1 mg/mL (1.65 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	1.6455 mL	8.2273 mL	16.4547 mL
5 mM	0.3291 mL	1.6455 mL	3.2909 mL
10 mM	0.1645 mL	0.8227 mL	1.6455 mL
50 mM	0.0329 mL	0.1645 mL	0.3291 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

Zi, Zhentao; Xian, Yi; Han, Shangchen; Zhou, Enxing; Wang, Meihuang; Rao, Yi. Use of bile acids and derivatives thereof in preparation of GPR39 agonist. WO2021083336A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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