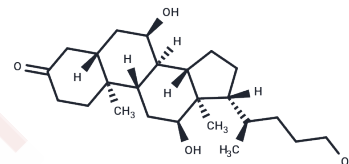


3-Keto petromyzonol

Chemical Properties

CAS No. :	359436-56-9
Formula:	C ₂₄ H ₄₀ O ₄
Molecular Weight:	392.57
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	3-Keto petromyzonol is a bile alcohol derivative that acts as a sex pheromone in <i>Petromyzon marinus</i> for drug design and biochemical experiments.
Targets(IC50)	Endogenous Metabolite
In vitro	3-Keto petromyzonol activates olfactory receptors in sea lamprey and induces behavioral responses at concentrations as low as 10 ⁻¹² M in vitro. [1]
In vivo	3-Keto petromyzonol regulates reproductive hormone expression in vivo following 6-24 hours of exposure at 10 ⁻⁹ M, demonstrating its potent, time-dependent activity as a sex pheromone. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5473 mL	12.7366 mL	25.4732 mL
5 mM	0.5095 mL	2.5473 mL	5.0946 mL
10 mM	0.2547 mL	1.2737 mL	2.5473 mL
50 mM	0.0509 mL	0.2547 mL	0.5095 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

Zhang Z, Zhang Q, Dexheimer TS, Ren J, Neubig RR, Li W. Two highly related odorant receptors specifically detect α -bile acid pheromones in sea lamprey (*Petromyzon marinus*). *J Biol Chem*. 2020 Aug 21;295(34):12153-12166.

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