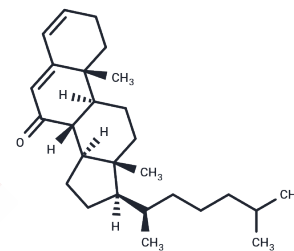


CAY10787

Chemical Properties

CAS No. : 567-72-6
 Formula: C₂₇H₄₂O
 Molecular Weight: 382.632
 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	CAY10787 is an oxysterol and a negative allosteric modulator of GABA receptors. 1, It reduces GABA-induced currents in HEK cells expressing $\alpha 1\beta 1\gamma 2$ or $\alpha 4\beta 3\gamma 2$ subunit-containing GABA receptors (IC ₅₀ s = 1.5 and 1 μ M, respectively). 2, CAY10787 (500 nM) reduces GABA-induced depolarization of peptidergic and non-peptidergic nociceptors, C-LTMRs, and cold thermosensors in isolated mouse dorsal root ganglion (DRG) neurons.
Targets(IC ₅₀)	Others, GABA Receptor
In vivo	In vivo, CAY10787 (2, 10, and 50 mg/kg) increases latency to nocifensive behaviors in the hot plate test in mice.

Solubility Information

Solubility	Chloroform: 10 mg/mL (26.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6135 mL	13.0675 mL	26.1349 mL
5 mM	0.5227 mL	2.6135 mL	5.227 mL
10 mM	0.2613 mL	1.3067 mL	2.6135 mL
50 mM	0.0523 mL	0.2613 mL	0.5227 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

Hahn, M., Tang, M., and Subbiah, M.T. Cholest-3,5-dien-7-one formation in peroxidized human plasma as an indicator of lipoprotein cholesterol peroxidation potential *Biochim. Biophys. Acta* 1255(3)341-343(1995)

Niu, C., Leavitt, L.S., Lin, Z., et al. Neuroactive type-A γ -aminobutyric acid receptor allosteric modulator steroids from the hypobranchial gland of marine mollusk, *Conus geographus*. *J. Med. Chem.* 64(10)7033-7043(2021)

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