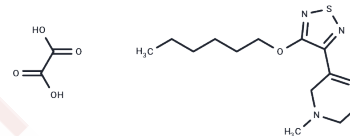


Xanomeline oxalate

Chemical Properties

CAS No. :	141064-23-5
Formula:	C16H25N3O5S
Molecular Weight:	371.45
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	Xanomeline oxalate (LY246708 oxalate), a potent and selective muscarinic receptor agonist (SMRA), effectively stimulates in vivo phosphoinositide hydrolysis. It is a valuable compound for Alzheimer's disease research.
Targets(IC50)	AChR
In vitro	Xanomeline stimulates phosphoinositide (PI) hydrolysis in A9 L m1 cells and inhibits [3H]-PZ and [3H]-OXO-M binding to rat brain, with Kis of 7 and 3 nM, respectively[1].
In vivo	Xanomeline robustly stimulates in vivo PI hydrolysis, an effect blocked by muscarinic antagonists, indicating mediation by muscarinic receptors. In mice, the ED100 for Xanomeline-induced stimulation of [3H]-IP accumulation in the hippocampus is 54 µmole/kg, while in rats, it is 8.1 µmole/kg in the hippocampus[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (121.15 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 (5.38 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	2.6922 mL	13.4608 mL	26.9215 mL
5 mM	0.5384 mL	2.6922 mL	5.3843 mL
10 mM	0.2692 mL	1.3461 mL	2.6922 mL
50 mM	0.0538 mL	0.2692 mL	0.5384 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

F P Bymaster, et al. Xanomeline Compared to Other Muscarinic Agents on Stimulation of Phosphoinositide Hydrolysis in Vivo and Other Cholinomimetic Effects. *Brain Res.* 1998 Jun 8; 795(1-2):179-90.

Bymaster FP, et al. Neurochemical effects of the M1 muscarinic agonist xanomeline (LY246708/NNC11-0232). *J Pharmacol Exp Ther.* 1994 Apr;269(1):282-9.

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