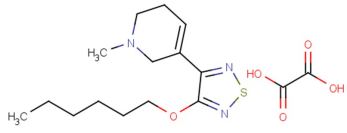
Data Sheet (Cat.No.T13353)

TargetMol
A DRUG SCREENING EXPERT

Xanomeline oxalate

Chemical Properties



CAS No.:	141064-23-5
Formula:	C16H25N3O5S
Molecular Weight:	371.45
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Xanomeline oxalate is a selective agonist of muscarinic receptor.
Targets(IC_{50})	muscarinic receptor: None
In vivo	Xanomeline increased striatal levels of dopamine metabolites, presumably by acting at M1 heteroreceptors on dopamine neurons to increase dopamine release. In contrast, xanomeline had only a relatively small effect on acetylcholine levels in brain, indicating that it is devoid of actions at muscarinic autoreceptors . The effects of xanomeline on ex vivo binding and DOPAC levels lasted for about 3 hr and were evident after oral administration. An analog of xanomeline with similar in vivo effects did not inhibit acetylcholinesterase or choline acetyltransferase and inhibited choline uptake only at concentrations much higher than those required to inhibit binding[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (134.61 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.692 mL	13.461 mL	26.922 mL
5 mM	0.538 mL	2.692 mL	5.384 mL
10 mM	0.269 mL	1.346 mL	2.692 mL
50 mM	0.054 mL	0.269 mL	0.538 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Shannon HE, et al. Xanomeline: a novel muscarinic receptor agonist with functional selectivity for M1 receptors. J Pharmacol Exp Ther. 1994 Apr;269(1):271-81.
2. 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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