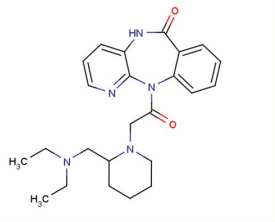
Data Sheet (Cat.No.T16411)

TargetMol
A DRUG SCREENING EXPERT

Otenzepad

Chemical Properties



CAS No.:	102394-31-0
Formula:	C24H31N5O2
Molecular Weight:	421.54
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Otenzepad is a selective and competitive antagonist of M2 muscarinic acetylcholine receptors. It has IC50 values of 640 nM and 386 nM for rabbit peripheral lung and rat heart, respectively.
Targets(IC_{50})	M2 muscarinic acetylcholine receptor in rabbit peripheral lung: 640 nM M2 muscarinic acetylcholine receptor in rat heart: 386 nM
In vivo	Otenzepad (2 mg/kg, s.c., in rats) obviously improved retention relative to vehicle controls. Otenzepad (0.5, 1 mg/kg, s.c., in rats) obviously improved win-stay acquisition relative to vehicle-injected controls. Otenzepad (0.3, 1.0, or 3.0 mg/kg, ip, in mice) potentiates the effects of glucose and reverses the effects of insulin on memory[2] [3].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.372 mL	11.861 mL	23.723 mL
5 mM	0.474 mL	2.372 mL	4.745 mL
10 mM	0.237 mL	1.186 mL	2.372 mL
50 mM	0.047 mL	0.237 mL	0.474 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. Bloom JW, et al. Heterogeneity of the M1 muscarinic receptor subtype between peripheral lung and cerebral cortex demonstrated by the selective antagonist AF-DX 116. Life Sci. 1987 Jul 27;41(4):491-6.
2. Packard MG, et al. Post-training injection of the acetylcholine M2 receptor antagonist AF-DX 116 improves memory. Brain Res. 1990 Jul 30;524(1):72-6.
3. Kopf SR, et al. AF-DX 116, a presynaptic muscarinic receptor antagonist, potentiates the effects of glucose and reverses the effects of insulin on memory. Neurobiol Learn Mem. 1998 Nov;70(3):305-13.

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