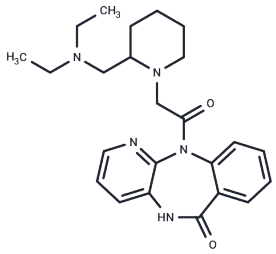
# Data Sheet (Cat.No.T16411)

TargetMol

## Otenzepad

### Chemical Properties



CAS No. : 102394-31-0

Formula: C24H31N5O2

Molecular Weight: 421.54

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 | Otenzepad (AF-DX 116) is a selective M2 mAChR antagonist with IC50 values of 386 nM in rat heart and 640 nM in rabbit peripheral lung. |
| Targets(IC50) | AChR |
| In vivo | In rats, Otenzepad (2 mg/kg; s.c.) significantly improved retention relative to vehicle controls. Otenzepad (0.5, 1 mg/kg; s.c.) significantly improved win-stay acquisition[1]. In mice, Otenzepad (0.3, 1.0, or 3.0 mg/kg, i.p.) reverses the effects of insulin on memory and potentiates the effects of glucose[2]. |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 24 mg/mL (56.93 mM),Sonication and heating to 60°C are recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.3723 mL | 11.8613 mL | 23.7225 mL |
| 5 mM | 0.4745 mL | 2.3723 mL | 4.7445 mL |
| 10 mM | 0.2372 mL | 1.1861 mL | 2.3723 mL |
| 50 mM | 0.0474 mL | 0.2372 mL | 0.4745 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

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.
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.
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.



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