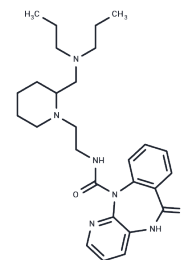


## AF-DX 384 free base

### Chemical Properties

CAS No. :	118290-26-9
Formula:	C <sub>27</sub> H <sub>38</sub> N <sub>6</sub> O <sub>2</sub>
Molecular Weight:	478.63
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	AF-DX 384 free base is a selective and efficient M2 muscarinic acetylcholine receptor (M2 mAChR) and M4 muscarinic acetylcholine receptor (M4 mAChR) antagonist. It can be used for research on neurodegenerative diseases like Parkinson's.
Targets(IC50)	AChR
In vitro	AF-DX 384 free base is an antagonist that selectively acts on M2 and M4 muscarinic acetylcholine receptors with Ki values of 6.03 nM and 10 nM, respectively. [1]

### Solubility Information

Solubility	DMSO: 5 mg/mL (10.45 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0893 mL	10.4465 mL	20.893 mL
5 mM	0.4179 mL	2.0893 mL	4.1786 mL
10 mM	0.2089 mL	1.0446 mL	2.0893 mL
50 mM	0.0418 mL	0.2089 mL	0.4179 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

Dörje F, et al. Antagonist binding profiles of five cloned human muscarinic receptor subtypes. J Pharmacol Exp Ther. 1991 Feb;256(2):727-33.

Vannucchi MG, et al. Selective muscarinic antagonists differentially affect in vivo acetylcholine release and memory performances of young and aged rats. Neuroscience. 1997 Aug;79(3):837-46.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481