

AdTx1

## Chemical Properties

CAS No. :

Formula: C310H481N87O100S8

Molecular Weight: 7283.22

Keep away from moisture

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	Selective, high affinity, non-competitive $\alpha$ 1A adrenoceptor antagonist ( $K_i = 0.35$ nM). Exhibits no significant activity against a range of other GPCRs, including $\alpha$ 2A, $\beta$ 1 and $\beta$ 2 adrenoceptors. Antagonizes effects of phenylephrine on isolated rabbit prostate muscle in vitro and on intra-urethral pressure in rats.
Targets(IC50)	Adrenergic Receptor

## Solubility Information

Solubility	H2O: 1 mg/mL (0.14 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.1373 mL	0.6865 mL	1.373 mL
5 mM	0.0275 mL	0.1373 mL	0.2746 mL
10 mM	0.0137 mL	0.0687 mL	0.1373 mL
50 mM	0.0027 mL	0.0137 mL	0.0275 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

Palea et al (2013) Effects of p-Da1a a peptidic  $\alpha$ 1A-adrenoceptor antagonist in human isolated prostatic adenoma and anaesthetized rats. Br.J.Pharmacol. 168 618 PMID:

Quinton et al (2010) Isolation and pharmacological characterization of AdTx1, a natural peptide displaying specific insurmountable antagonism of the  $\alpha$ 1A-adrenoceptor. Br.J.Pharmacol. 159 316 PMID:

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