

α 1A/1D-Adrenoceptor antagonist-1

Chemical Properties

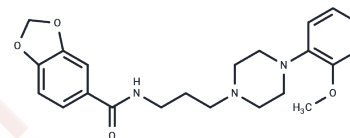
CAS No. : 1049442-53-6

Formula: C₂₂H₂₇N₃O₄

Molecular Weight: 397.47

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	α 1A/1D-Adrenoceptor antagonist-1 is a dual-targeting adrenoceptor antagonist exhibiting exceedingly high binding affinity for both alpha 1A and alpha 1D subtypes. It significantly reduces urethral resistance by specifically blocking smooth muscle contraction in the lower urinary tract and prostate, serving as an important tool for investigating benign prostatic hyperplasia (BPH) and hypertension mechanisms.
Targets(IC50)	Adrenergic Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5159 mL	12.5796 mL	25.1591 mL
5 mM	0.5032 mL	2.5159 mL	5.0318 mL
10 mM	0.2516 mL	1.258 mL	2.5159 mL
50 mM	0.0503 mL	0.2516 mL	0.5032 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

Horton JR, et al. Structural characterization of dicyanopyridine containing DNMT1-selective, non-nucleoside inhibitors. Structure. 2022 Jun 2;30(6):793-802.e5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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