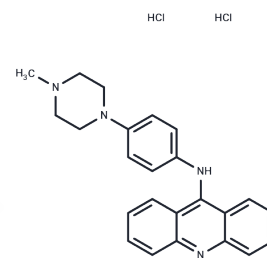


JP1302 dihydrochloride

Chemical Properties

CAS No. :	1259314-65-2
Formula:	C ₂₄ H ₂₆ Cl ₂ N ₄
Molecular Weight:	441.4
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	JP1302 dihydrochloride is a selective, high affinity antagonist of the alpha ₂ C-adrenoceptor (α ₂ C-adrenoceptor), with a K _i (binding affinity) value of 28 nM and a K _b value (antagonist activity) of 16 nM.
Targets(IC ₅₀)	Adrenergic Receptor

Solubility Information

Solubility	H ₂ O: 12 mg/mL (27.19 mM), Sonication is recommended. DMSO: 5.63 mg/mL (12.75 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	2.2655 mL	11.3276 mL	22.6552 mL
5 mM	0.4531 mL	2.2655 mL	4.531 mL
10 mM	0.2266 mL	1.1328 mL	2.2655 mL
50 mM	0.0453 mL	0.2266 mL	0.4531 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

- Tricklebank MD, et al. JP-1302: a new tool to shed light on the roles of alpha₂C-adrenoceptors in brain. Br J Pharmacol. 2007 Feb;150(4):381-2.
- Sallinen J, et al. Pharmacological characterization and CNS effects of a novel highly selective alpha₂C-adrenoceptor antagonist JP-1302. Br J Pharmacol. 2007 Feb;150(4):391-402.

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