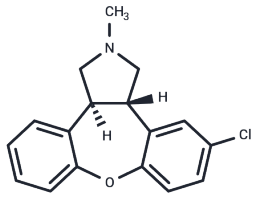
Data Sheet (Cat.No.T22589)

TargetMol

Asenapine hydrochloride

Chemical Properties



CAS No. : 1261398-77-9

Formula: C17H17Cl2NO

Molecular Weight: 322.23

Storage: Store at low temperature
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	Asenapine hydrochloride (Org 5222 hydrochloride) is a 5-hydroxytryptamine receptor, adrenergic receptor, dopamine receptor and histamine receptor antagonist with antipsychotic effects used in neurological disorders such as schizophrenia and bipolar disorder.
Targets(IC50)	5-HT Receptor,Adrenergic Receptor,Histamine Receptor,Dopamine Receptor
In vitro	Asenapine hydrochloride acts as an antagonist of 5-HT2A receptors and D2 receptors, commonly used in research related to neurological disorders[2].

Solubility Information

Solubility	DMSO: 1 mg/mL (3.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1034 mL	15.5169 mL	31.0337 mL
5 mM	0.6207 mL	3.1034 mL	6.2067 mL
10 mM	0.3103 mL	1.5517 mL	3.1034 mL
50 mM	0.0621 mL	0.3103 mL	0.6207 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

Stoner SC,et al. Asenapine: a clinical review of a second-generation antipsychotic. Clin Ther. 2012 May;34(5):1023-40.

Shahid M, et al. Asenapine: a novel psychopharmacologic agent with a unique human receptor signature. J Psychopharmacol. 2009 Jan;23(1):65-73.

Ohyama M,et al. Asenapine reduces anxiety-related behaviours in rat conditioned fear stress model. Acta Neuropsychiatr. 2016 Dec;28(6):327-336.

Ene HM, et al. Effects of repeated asenapine in a battery of tests for anxiety-like behaviours in mice. Acta Neuropsychiatr. 2016 Apr;28(2):85-91.

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