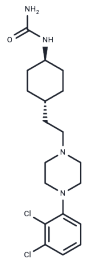
Data Sheet (Cat.No.T15117)

TargetMol

Didesmethyl cariprazine

Chemical Properties



CAS No. : 839712-25-3

Formula: C19H28Cl2N4O

Molecular Weight: 399.36

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	Didesmethyl cariprazine, a metabolite of Cariprazine, is the major cyclic active part. Didesmethyl cariprazine has a long half-life of 1-3 weeks. Cariprazine is a potent D3 preference D3/D2 receptor partial agonist of dopamine for the treatment of schizophrenia, bipolar mania, and depression, with a high affinity for d3 and d2 receptors and a moderate affinity for 5-HT 1A receptors.
Targets(IC50)	5-HT Receptor,Dopamine Receptor

Solubility Information

Solubility	DMSO: 6.82 mg/mL (17.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.68 mg/mL (1.7 mM),Suspension. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.504 mL	12.520 mL	25.0401 mL
5 mM	0.5008 mL	2.504 mL	5.008 mL
10 mM	0.2504 mL	1.252 mL	2.504 mL
50 mM	0.0501 mL	0.2504 mL	0.5008 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

Citrome L, et al. Cariprazine for acute and maintenance treatment of adults with schizophrenia: an evidence-based review and place in therapy. Neuropsychiatr Dis Treat. 2018;14:2563-2577.
Citrome L. Cariprazine: chemistry, pharmacodynamics, pharmacokinetics, and metabolism, clinical efficacy, safety, and tolerability. Expert Opin Drug Metab Toxicol. 2013;9(2):193-206.

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