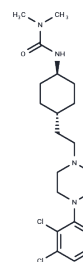


## Cariprazine

## Chemical Properties

|                   |                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS No. :         | 839712-12-8                                                                                                                                      |
| Formula:          | C <sub>21</sub> H <sub>32</sub> Cl <sub>2</sub> N <sub>4</sub> O                                                                                 |
| Molecular Weight: | 427.41                                                                                                                                           |
| Appearance:       | no data available                                                                                                                                |
| Storage:          | store at low temperature, keep away from moisture,<br>keep away from direct sunlight<br>Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



## Biological Description

|                            |                                                                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                | Cariprazine (RGH-188) is a novel antipsychotic drug candidate that exhibits high affinity for the D <sub>3</sub> (K <sub>i</sub> =0.085 nM) and D <sub>2</sub> (K <sub>i</sub> =0.49 nM) receptors, and moderate affinity for the 5-HT <sub>1A</sub> receptor (K <sub>i</sub> =2.6 nM). |
| Targets(IC <sub>50</sub> ) | 5-HT Receptor, Dopamine Receptor                                                                                                                                                                                                                                                        |

## Solubility Information

|            |                                                                                            |
|------------|--------------------------------------------------------------------------------------------|
| Solubility | DMSO: Slightly soluble,<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.3397 mL | 11.6984 mL | 23.3967 mL |
| 5 mM  | 0.4679 mL | 2.3397 mL  | 4.6793 mL  |
| 10 mM | 0.234 mL  | 1.1698 mL  | 2.3397 mL  |
| 50 mM | 0.0468 mL | 0.234 mL   | 0.4679 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.

### Reference

Seneca N,etal.Occupancy of dopamine D<sub>2</sub> and D<sub>3</sub> and serotonin 5-HT<sub>1A</sub> receptors by the novel antipsychotic drug candidate, cariprazine (RGH-188), in monkey brain measured using positron emission tomography.

Psychopharmacology (Berl). 2011 Dec;218(3):579-87.

Kiss B,etal.Cariprazine (RGH-188), a dopamine D(3) receptor-preferring, D(3)/D(2) dopamine receptor antagonist-partial agonist antipsychotic candidate: in vitro and neurochemical profile.J Pharmacol Exp Ther. 2010 Apr;333(1):328-40.

Zimnisky R,etal.Cariprazine, a dopamine D(3)-receptor-preferring partial agonist, blocks phencyclidine-induced impairments of working memory, attention set-shifting, and recognition memory in the mouse.

Psychopharmacology (Berl). 2013 Mar;226(1):91-100.

Gao Y,etal.Cariprazine exerts antimanic properties and interferes with dopamine D2 receptor  $\beta$ -arrestin interactions. Pharmacol Res Perspect. 2015 Feb;3(1):e00073.

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