Desmethyl cariprazine

Cat. No.: HY-100656

CAS No.: 839712-15-1

Molecular Formula: $C_{20}H_{30}Cl_2N_4O$

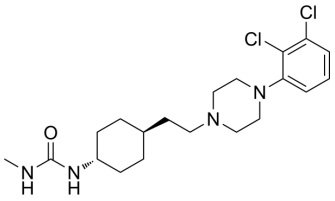
Molecular Weight: 413.38

Target: Drug Metabolite; Dopamine Receptor; 5-HT Receptor

Pathway: Metabolic Enzyme/Protease; GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (12.10 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4191 mL	12.0954 mL	24.1908 mL
	5 mM	0.4838 mL	2.4191 mL	4.8382 mL
	10 mM	0.2419 mL	1.2095 mL	2.4191 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Desmethyl cariprazine is an active metabolite of Cariprazine[1]. Cariprazine, an antipsychotic agent candidate, exhibits high affinity for the D3 (K_i=0.085 nM) and D2 (0.49 nM) receptors, and moderate affinity for the 5-HT1A receptor (2.6 nM)[2].

IC_{50} & Target			
	D_3 Receptor 0.085 nM (Ki)	D_2 Receptor 0.49 nM (Ki)	5-HT_{1A} Receptor 2.6 nM (Ki)

REFERENCES

[1]. Campbell RH, et al. Review of cariprazine in management of psychiatric illness. Ment Health Clin. 2018 Mar 23;7(5):221-229.

[2]. Seneca N, et al. Occupancy of dopamine D2 and D3 and serotonin 5-HT1A receptors by the novel antipsychotic drug candidate, cariprazine (RGH-188), in monkey brain measured using positron emission tomography. Psychopharmacology (Berl). 2011 Dec;218(3):579-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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