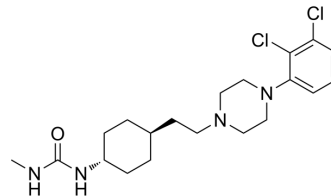


Desmethyl cariprazine

Cat. No.:	HY-100656		
CAS No.:	839712-15-1		
Molecular Formula:	C ₂₀ H ₃₀ Cl ₂ N ₄ O		
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 Concentration	Mass		
		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-HT_{1A} receptor (2.6 nM)^[2].

IC₅₀ & Target

D ₃ Receptor 0.085 nM (Ki)	D ₂ Receptor 0.49 nM (Ki)	5-HT _{1A} Receptor 2.6 nM (Ki)
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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-HT_{1A} 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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