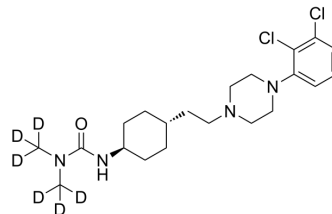


Cariprazine-d₆

Cat. No.:	HY-14763S		
CAS No.:	1308278-67-2		
Molecular Formula:	C ₂₁ H ₂₆ D ₆ Cl ₂ N ₄ O		
Molecular Weight:	433.45		
Target:	Dopamine Receptor; 5-HT Receptor		
Pathway:	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 : 33.33 mg/mL (76.89 mM; ultrasonic and warming and heat to 160°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.3071 mL	11.5354 mL	23.0707 mL
	5 mM	0.4614 mL	2.3071 mL	4.6141 mL
	10 mM	0.2307 mL	1.1535 mL	2.3071 mL

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

BIOLOGICAL ACTIVITY

Description

Cariprazine-d₆ is a deuterium labeled Cariprazine. Cariprazine Cariprazine is an antipsychotic agent that exhibits high affinity for the D3 (K_i of 0.085 nM) and D2 (K_i of 0.49 nM) receptors, and moderate affinity for the 5-HT_{1A} receptor (K_i of 2.6 nM)[1].

IC₅₀ & Target

Dopamine D2 Receptor 0.49 nM (K _i)	Dopamine D3 Receptor 0.085 nM (K _i)	5-HT _{1A} Receptor 2.6 nM (K _i)
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REFERENCES

[1]. 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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