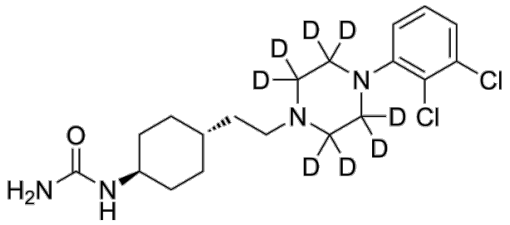
Product Data Sheet

Product Name: Didesmethyl cariprazine-d 8
Cat. No.: GC80835

Chemical Properties

Cas. No.	1308279-08-4		
Formula	$C_{19}H_{20}D_8Cl_2N_4O$	M.Wt	407.41
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Didesmethyl cariprazine -d 8 is the deuterium labeled Didesmethyl cariprazine. Didesmethyl cariprazine is an orally active, BBB-permeable metabolite of Cariprazine. Didesmethyl cariprazine is a partial agonist at the D2 and D3 receptors, full agonist at the 5-HT1A receptor, and antagonist at the human 5-HT2B receptor (K i: 1.41 nM (human D2L), 0.056 nM (human D3), 1.7 nM (human 5-HT1A), 0.52 nM (human 5-HT2B)). Didesmethyl cariprazine dose-dependently inhibits the spontaneous activity of rat midbrain dopaminergic neurons.

In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into

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drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

References:

[1]. 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 Oct 5;14:2563-2577.
[2]. Kiss B, et al. Preclinical pharmacodynamic and pharmacokinetic characterization of the major metabolites of cariprazine. Drug Des Devel Ther. 2019 Sep 16;13:3229-3248.

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