

Product Data Sheet

Product Name: Desmethyl cariprazine-d 8

Cat. No.: GC80837

Chemical Properties

Cas. No. 1308278-85-4

Formula $C_{20}H_{22}D_8Cl_2N_4O$

M.Wt 421.43

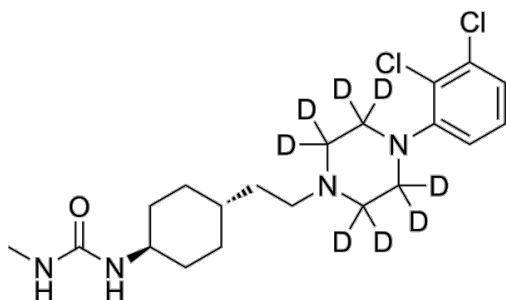
Solubility

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

Desmethyl cariprazine -d 8 is the deuterium labeled Desmethyl cariprazine. Desmethyl cariprazine is a major active metabolite of cariprazine, with activities at human dopamine receptors and serotonin receptors, showing a pEC₅₀ of 8.90 at human D₂ receptors, a pEC₅₀ of 8.09 at D₃ receptors, and a pEC₅₀ of 6.28 at 5-HT_{1A} receptors. Desmethyl cariprazine inhibits forskolin-induced cAMP production at D₂, D₃ and 5-HT_{1A} receptors, and suppresses serotonin-induced Ca²⁺ release at 5-HT_{2B} receptors. Desmethyl cariprazine is applicable to research related to schizophrenia, bipolar disorder type I and bipolar disorder.

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

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

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