

Product Data Sheet

Product Name: Cariprazine hydrochloride

CAS No.: 1083076-69-0

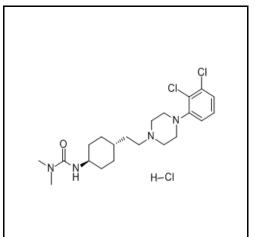
Cat. No.: HY-14763A

MWt: 463.87

Formula: C21H33Cl3N4O

Purity: >98%

Solubility: 25°C: DMSO



Mechanisms: Pathways:Neuronal Signaling; Target:Dopamine Receptor

Pathways:GPCR/G protein; Target:Dopamine Receptor

Biological Activity:

Description:

IC50 Value: 0.5 and 0.09 nM (Ki for D2 and D3 receptor respectively); 2.6 and 180 nM(Ki for 5-HT1A and 5-HT2A receptor respectively) [1]

Cariprazine is a novel antipsychotic drug candidate that exhibits high selectivity and affinity to dopamine D(3) and D(2) receptors and moderate affinity to serotonin 5-HT(1A) receptors. in vitro: Cariprazine had lower affinity at human and rat hippocampal 5-HT(1A) receptors (pK(i) 8.59 and 8.34, respectively) and demonstrated low intrinsic efficacy. Cariprazine displayed low affinity at human 5-HT(2A) receptors (pK(i) 7.73). Moderate or low affinity for histamine H(1) and 5-HT(2C) receptors (pK(i) 7.63 and 6.87, respectively) suggest cariprazine's reduced propensity for adverse events related to these receptors [2].

in vivo: Doses \geq 1.5 mg/d yielded 69 - 75% D2/D3 receptor occupancy as measured in positron emission t...

References:

[1]. Seneca N, et al. Occupancy of dopamine D? and D? and serotonin 5-HT?A receptors by the novel antipsychotic drug candidate, cariprazine (RGH-188), in monkey brain measured using positron emission tomography. Psychopharmacology (Berl). 2011 Dec;218(3):579-87.

[2]. Kiss B, et al. Cariprazine (RGH-188), a dopamine D(3) receptor-preferring, D(3)/D(2) dopamine receptor antagonist-partial agonist antipsychotic candidate: in vitro and neurochemical profile. J Pharmacol Exp Ther. 2010 Apr;333(1):328-40.

[3]. Citrome L. Cariprazine: chemistry, pharmacodynamics, pharmacokinetics, and metabolism, clinical efficacy, safety, and tolerability. Expert Opin Drug Metab Toxicol. 2013 Feb;9(2):193-206.

[4]. Román V, et al. Cariprazine (RGH-188), a D?-preferring dopamine D?/D? receptor partial agonist antipsychotic candidate demonstrates anti-abuse potential in rats. Psy...

Caution: Not fully tested. For research purposes only

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