

Product Data Sheet

Product Name: Cariprazine impurity 1

Cat. No.: GC79285

Chemical Properties

Cas. No. 791778-53-5

Formula $C_{18}H_{27}Cl_2N_3$

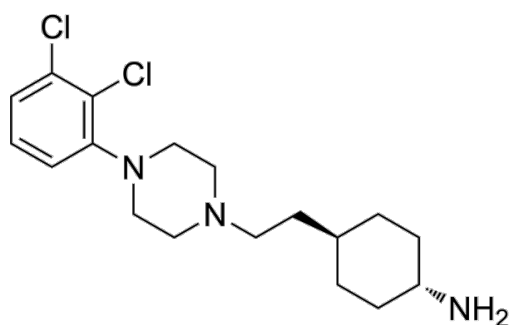
M.Wt 356.34

Solubility Storage Store at 4°C, protect from light

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

Cariprazine impurity 1 is a dopamine D2 receptor (D2R) agonist. Cariprazine impurity 1 modulates D2R-mediated G_{i/o} signaling pathway to inhibit cAMP production, and regulates D2R-mediated β -arrestin2 recruitment pathway [1].

In Vitro, Cariprazine impurity 1 (Compound 11) acts as a balanced partial agonist of human D2R, mediates G_{i/o}-dependent cAMP inhibition (with an EC₅₀ of 0.7 nM) and β -arrestin2 recruitment (with an EC₅₀ of 2 nM), and exhibits a mild bias toward the G_{i/o} signaling pathway [1].

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

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References:

[1]. Shen Y, et al. D 2 Dopamine Receptor G Protein-Biased Partial Agonists Based on Cariprazine. J Med Chem. 2019;62(9):4755-4771.

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