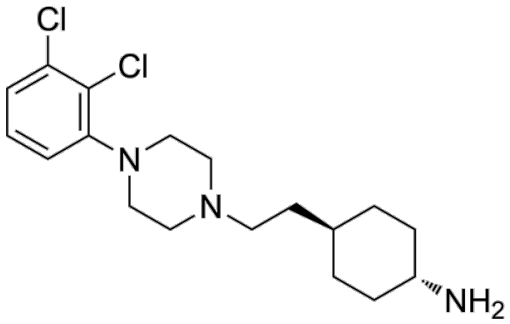
Product Data Sheet

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 Gi/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 Gi/o signaling pathway[1].

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.