

Product Data Sheet

Product Name: ML417
Cat. No.: GC39752

Chemical Properties

Cas. No. 1386162-69-1

SMILES O=C(C(N1)=CC2=C1C=CC=C2)N3CCN(CCOC4=CC=C(OC)C=C4)CC3

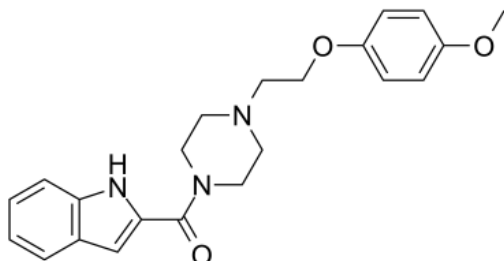
Formula $C_{22}H_{25}N_3O_3$ M.Wt 379.45

Solubility DMSO: 50 mg/mL (131.77 mM) 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

ML417 is a selective and brain penetrant D3 dopamine receptor (D3R) agonist, with an EC₅₀ of 38 nM. ML417 potently promotes D3R-mediated β-arrestin translocation, G protein mediated signaling, and pERK phosphorylation with minimal effects on other GPCR-mediated signaling. ML417 exhibits

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

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neuroprotection against toxin-induced neurodegeneration of dopaminergic neurons[1].

[1]. Moritz AE, et al. Discovery, Optimization, and Characterization of ML417: A Novel and Highly Selective D3 Dopamine Receptor Agonist. J Med Chem. 2020;63(10):5526-5567.

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