

Product Data Sheet

Product Name: CIQ
Cat. No.: GC14414

Chemical Properties

Cas. No. 486427-17-2

Chemical Name (3-chlorophenyl)(6,7-dimethoxy-1-((4-methoxyphenoxy)methyl)-3,4-dihydroisoquinolin-2(1H)-yl)methanone

SMILES COC1=CC=C(OCC2C3=CC(OC)=C(OC)C=C3CCN2C(C4=CC(Cl)=CC=C4)=O)C=C1

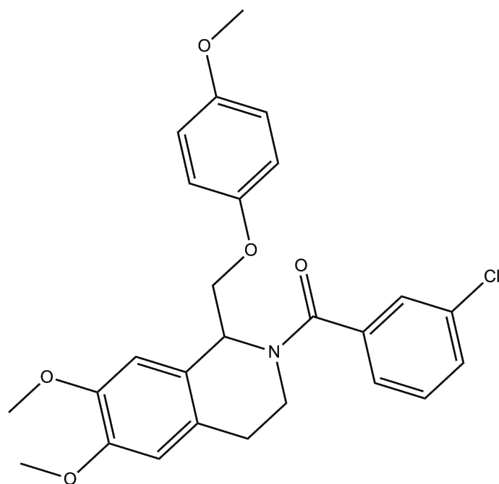
Formula $C_{26}H_{26}ClNO_5$ M.Wt 467.94

Solubility DMF: 30 mg/mL, DMF:PBS (pH 7.2) (1:4): 0.2 mg/mL, DMSO: 25 mg/mL, Ethanol: 0.2 mg/mL 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

CIQ is a subunit-selective potentiator of NMDA receptors containing the NR2C or NR2D subunit. IC50 value: 2.7 μM (EC50, for NR2C) and 2.8 μM (EC50, NR2D). Target: NMDA receptor.

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

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increases channel opening frequency of recombinant NR2Cor NR2D containing receptors by two-fold ($EC_{50} = 2.7$ and $2.8 \mu M$, respectively), with no effect on NR2A or NR2B subtypes. CIQ does not alter the EC_{50} values for glutamate or glycine on channel opening. CIQ increases channel opening efficiency and enhances NMDA receptor responses. CIQ reduces associated behaviours in schizophrenia models and potentially enhances dopamine release in Parkinson's disease models.

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