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DATASHEET

Product overview

Name CIQ HB0197 Cat No **Biological action** PAM >98% **Purity**

Customer comments We were happy with the CIQ indeed. Verified customer, University of Milan Description GluN2C / GluN2D subunit selective NMDA receptor positive allosteric modulator

Images





Biological Data

Biological description

GluN2C / GluN2D subunit selective NMDA receptor positive allosteric modulator. Causes two-fold increase in receptor channel opening frequency (EC₅₀ values are 2.7 and 2.8 µM for GluN2C and GluN2D respectively). Reduces associated behaviours in schizophrenia models and potentially enhances DA release in Parkinson's disease models.

Solubility & Handling

Solubility overview Storage instructions Storage of solutions Soluble in DMSO (100mM) and in ethanol (10mM, sonication)

+4°C

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Stable for ambient temperature shipping. Follow storage instructions on receipt.

Shipping Conditions This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

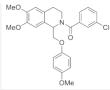
Chemical Data

Chemical name

Important

(3-Chlorophenyl)

Molecular Weight Chemical structure [3,4-dihydro-6,7-dimethoxy-1-[(4-methoxyphenoxy)methyl]-2(1*H*)-isoquinolinyl]methanone 467.94



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

InChi InChi=1S/C26H26CINO5/c1-30-20-7-9-21(10-8-20)33-16-23-22-15-25(32-3)24(31-2)14-17(22)11-12

-28(23)26(29)18-5-4-6-19(27)13-18/h4-10,13-15,23H,11-12,16H2,1-3H3

InChiKey VYMILMYEENZHAR-UHFFFAOYSA-N

References

A subunit-selective potentiator of NR2C- and NR2D-containing NMDA receptors.

Mullasseril P *et al* (2010) Nat Commun 1 **PubMedID** 20981015

GluN2C/GluN2D subunit-selective NMDA receptor potentiator CIQ reverses MK-801-induced impairment in prepulse inhibition and working memory in Y-maze test in mice.

Suryavanshi PS *et al* (2014) Br J Pharmacol 171(3) **PubMedID** 24236947

Allosteric modulation of GluN2C/GluN2D-containing NMDA receptors bidirectionally modulates dop release: implication for Parkinson's disease.

Zhang X *et al* (2014) Br J Pharmacol 171(16) **PubMedID** 24818560