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DATASHEET

CIQ

Product overview

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

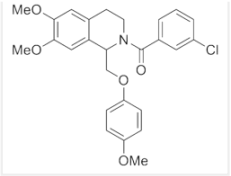
Biological description	GluN2C / GluN2D subunit selective NMDA receptor positive allosteric modulator. Causes two-fold increase in receptor channel opening frequency (EC_{50} values are 2.7 and 2.8 µM for GluN2C and GluN2D respectively). Reduces associated behaviours in schizophrenia models and potentially enhances DA release in Parkinson's disease models.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (100mM) and in ethanol (10mM, sonication)
Important	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	(3-Chlorophenyl) [3,4-dihydro-6,7-dimethoxy-1-[(4-methoxyphenoxy)methyl]-2(1*H*)-isoquinolinyl]methanone
Molecular Weight	467.94
Chemical structure	



Molecular Formula	$C_{26}H_{26}ClNO_5$
CAS Number	486427-17-2
PubChem identifier	4231127
SMILES	COC1=CC=C(C=C1)OCC2C3=CC(=C(C=C3CCN2C(=O)C4=CC(=CC=C4)Cl)OC)OC
InChi	InChI=1S/C26H26ClNO5/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