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## DATASHEET

CIQ

### Product overview

|                   |                                                                                  |
|-------------------|----------------------------------------------------------------------------------|
| Name              | CIQ                                                                              |
| Cat No            | HB0197                                                                           |
| Biological action | PAM                                                                              |
| Purity            | >98%                                                                             |
| Customer comments | <i>We were happy with the CIQ indeed. Verified customer, University of Milan</i> |
| Description       | GluN2C / GluN2D subunit selective NMDA receptor positive allosteric modulator    |

### Images



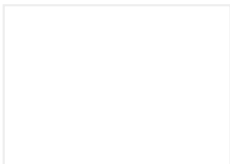
### Biological Data

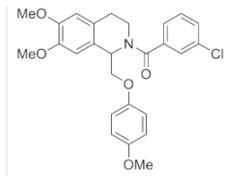
|                        |                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 $\mu$ M 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)<br>[3,4-dihydro-6,7-dimethoxy-1-[(4-methoxyphenoxy)methyl]-2(1H)-isoquinolinyl]methanone |
| Molecular Weight   | 467.94                                                                                                    |
| Chemical structure |                        |



**Molecular Formula**

C<sub>26</sub>H<sub>26</sub>ClNO<sub>5</sub>

**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](#)