

Product Name: CIQ

Catalog No.: 4105

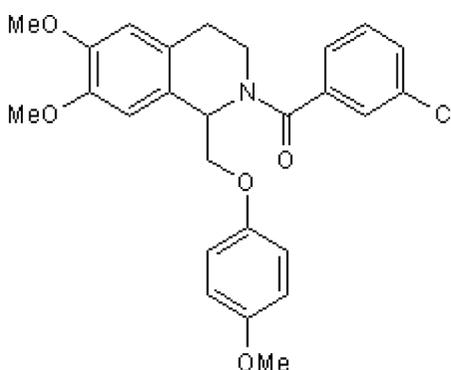
Batch No.: 5

CAS Number: 486427-17-2

IUPAC Name: (3-Chlorophenyl) [3,4-dihydro-6,7-dimethoxy-1-[(4-methoxyphenoxy)methyl]-2(1*H*)-isoquinolinyl]methanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₆ClNO₅
Batch Molecular Weight: 467.94
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.74	5.6	2.99
Found	66.86	5.53	3.07

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Description:

CIQ is a subunit-selective potentiator of NMDA receptors containing the GluN2C (formally NR2C) or GluN2D (formally NR2D) subunit. Increases channel opening efficiency and enhances NMDA receptor responses. Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

Physical and Chemical Properties:

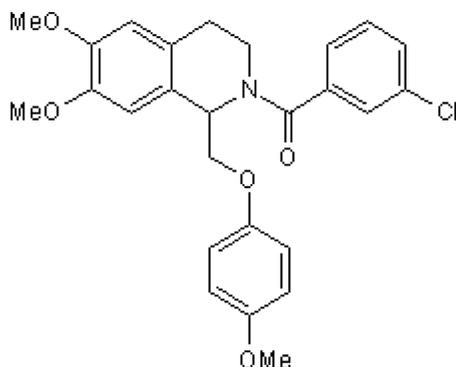
Batch Molecular Formula: C₂₆H₂₆ClNO₅.

Batch Molecular Weight: 467.94

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Mullasseril *et al* (2010) A subunit-selective potentiator of NR2C- and NR2D-containing NMDA receptors. *Nat. Commun.* **1** 1. PMID: 20975674.

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