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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



CIQ

Item No. 17997

CAS Registry No.: 486427-17-2

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

MF: $C_{26}H_{26}ClNO_5$

FW: 467.9

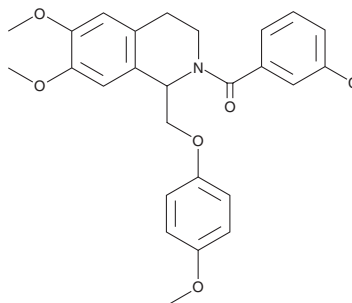
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 284 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

CIQ is supplied as a crystalline solid. A stock solution may be made by dissolving the CIQ in the solvent of choice. CIQ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of CIQ in these solvents is approximately 0.2, 25, and 30 mg/ml, respectively.

CIQ is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CIQ should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CIQ has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

CIQ is a substituted tetrahydroisoquinoline that acts as a subunit-selective potentiator of NR2C- and NR2D-containing NMDA receptors.¹ It is without effect at subunits NR2A, NR2B, or glutamate receptors. CIQ enhances receptor responses two-fold ($EC_{50} = 3 \mu\text{M}$) by increasing channel opening frequency for glutamate or glycine.¹ It is a positive allosteric modulator that does not alter agonist EC_{50} values.^{2,3}

References

1. Mullasseril, P., Hansen, K.B., Vance, K.M., *et al.* A subunit-selective potentiator of NR2C- and NR2D-containing NMDA receptors. *Nat. Commun.* **1**(90), 1-20 (2010).
2. Monaghan, D.T., Irvine, M.W., Costa, B.M., *et al.* Pharmacological modulation of NMDA receptor activity and the advent of negative and positive allosteric modulators. *Neurochem Int.* **61**(4), 581-592 (2012).
3. Hackos, D.H. and Hanson, J.E. Diverse modes of NMDA receptor positive allosteric modulation: Mechanisms and consequences. *Neuropharmacology* **112**(Pt A), 34-45 (2017).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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