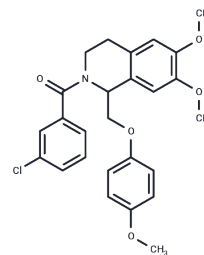


CIQ

Chemical Properties

CAS No. :	486427-17-2
Formula:	C ₂₆ H ₂₆ ClNO ₅
Molecular Weight:	467.94
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	CIQ is a subunit-selective potentiator of NMDA receptors containing the NR2C or NR2D subunit, with EC ₅₀ values of 2.7 μM for NR2C and 2.8 μM for NR2D.
Targets(IC ₅₀)	NMDAR,iGluR
In vitro	CIQ reduces associated behaviours in schizophrenia models and potentially enhances dopamine release in Parkinson's disease models. NMDA receptor CIQ increases channel opening frequency of recombinant NR2C or NR2D containing receptors by two-fold (EC ₅₀ = 2.7 and 2.8 μM, respectively). It has no effect on NR2A or NR2B subtypes. CIQ does not alter the EC ₅₀ values for glutamate or glycine on channel opening. CIQ increases channel opening efficiency and enhances NMDA receptor responses.

Solubility Information

Solubility	DMSO: 50 mg/mL (106.85 mM),Sonication is recommended. H ₂ O: insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.27 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.137 mL	10.6851 mL	21.3703 mL
5 mM	0.4274 mL	2.137 mL	4.2741 mL
10 mM	0.2137 mL	1.0685 mL	2.137 mL
50 mM	0.0427 mL	0.2137 mL	0.4274 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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