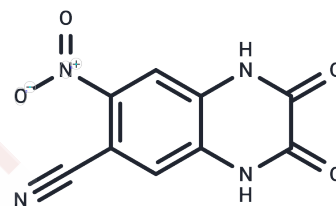


CNQX

Chemical Properties

CAS No. :	115066-14-3
Formula:	C ₉ H ₄ N ₄ O ₄
Molecular Weight:	232.15
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	CNQX (FG9065) is a competitive, non-NMDA glutamate receptor antagonist (IC ₅₀ s = 0.3 and 1.5 μM for AMPA and kainate receptors, respectively)
Targets(IC ₅₀)	GluR,iGluR
In vitro	In rat hippocampal slices bathed in Mg ²⁺ -free medium 10 microM CNQX reversibly blocks responses to alpha-amino-3-hydroxy-5-methyl-4-isoxazole-propionic acid (AMPA), quisqualate and kainate but not NMDA. The synaptic response evoked by low frequency stimulation of Schaffer collateral-commissural fibres in 1 mM Mg ²⁺ -containing medium is completely blocked by this concentration of CNQX. In contrast the synaptic response evoked in Mg ²⁺ -free medium is not fully blocked by CNQX[1].

Solubility Information

Solubility	DMSO: 20 mg/mL (86.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3076 mL	21.5378 mL	43.0756 mL
5 mM	0.8615 mL	4.3076 mL	8.6151 mL
10 mM	0.4308 mL	2.1538 mL	4.3076 mL
50 mM	0.0862 mL	0.4308 mL	0.8615 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.

Reference

Blake J F , Brown M W , Collingridge G L . CNQX blocks acidic amino acid induced depolarizations and synaptic components mediated by non-NMDA receptors in rat hippocampal slices[J]. Neuroscience letters, 1988, 89(2):182-186.

Lee S H , Govindaiah G , Cox C L . Selective Excitatory Actions of DNQX and CNQX in Rat Thalamic Neurons[J]. Journal of Neurophysiology, 2010, 103(4):1728-1734.

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