

Certificate of Analysis

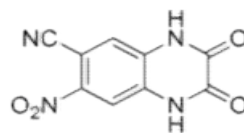


Product Identification

Catalog number HB0204
Compound name CNQX
Chemical name 6-Cyano-7-nitroquinoxaline-2,3-dione

Batch number E0268-4-3
Batch molecular formula $C_9H_4N_4O_4 \cdot 1.25H_2O$
Batch molecular weight 254.67

Chemical Structure



Method

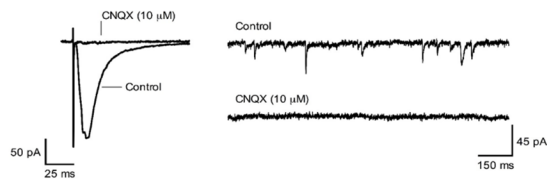
QC requirement

QC Result

HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 99.3%
NMR	¹ H NMR in DMSO at 400 MHz consistent with structure	Meets specification
Mass spectrum	Electrospray positive analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 5% AcOH/EtOAc shows one spot under XXX	Meets specification: R _f =0.55
Physical appearance	Off-White to pale yellow solid	Meets specification: Pale Yellow Solid
Solubility	Soluble in DMSO to 100 mM	Meets specification

Biological validation

Fig 1: CNQX inhibition of evoked and spontaneous AMPAR mediated EPSCs in mouse cortical neurons



The AMPA receptor antagonist CNQX is commonly used at concentrations of 10 μ M to inhibit the actions of glutamate acting on AMPARs. CNQX from Hello Bio reduces both spontaneous and evoked EPSCs in cortical neurons at concentrations of 1 μ M with full AMPA receptor blockade at 10 μ M. For assay protocol, see #Protocol 1 in Application Notes below

Produced by Huw Davies

Signature

Passed by Steve Roome

Signature

Date 10-03-16

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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