CNQX
Item No. 14618

CAS Registry No.: 115066-14-3
Formal Name: 1,2,3,4-tetrahydro-7-nitro-2,3-dioxo-6-quinoxalinecarbonitrile
Synonyms: 6-cyano-7-Nitroquinoxaline-2,3-dione, FG 9065
MF: C₉H₄N₄O₄
FW: 232.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_max: 217, 275, 315 nm

Laboratory Procedures
For long term storage, we suggest that CNQX be stored as supplied at -20°C. It should be stable for at least two years.
CNQX is supplied as a crystalline solid. A stock solution may be made by dissolving the CNQX in the solvent of choice.
CNQX is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of CNQX in these solvents is approximately 5 and 12 mg/ml, respectively.
CNQX is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CNQX should first be dissolved in DMF and then diluted with the aqueous buffer of choice. CNQX has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.
CNQX is a competitive, non-NMDA glutamate receptor antagonist (IC₅₀ = 0.3 and 1.5 μM for AMPA and kainate receptors, respectively, versus IC₅₀ = 25 μM for NMDA receptors).¹ ² This compound has been used to specifically target AMPA and kainate receptor responses and thus differentiate from that of NMDA receptors.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/14618

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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