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Zuschläge

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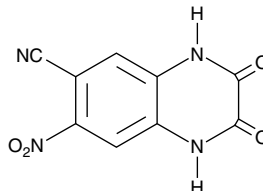
Product Information



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: $C_9H_4N_4O_4$
FW: 232.2
Purity: $\geq 98\%$
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 ($\text{IC}_{50} = 0.3$ and $1.5 \mu\text{M}$ for AMPA and kainate receptors, respectively, *versus* $\text{IC}_{50} = 25 \mu\text{M}$ 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

1. Honoré, T., Davies, S.N., Drejer, J., *et al.* Quinoxalinediones: Potent competitive non-NMDA glutamate receptor antagonists. *Science* **241**(4866), 701-703 (1988).
2. Lee, S.-H., Govindaiah, G., and Cox, C.L. Selective excitatory actions of DNQX and CNQX in rat thalamic neurons. *J. Neurophysiol.* **103**(4), 1728-1734 (2010).

Related Products

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

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