

Product Name: NBQX

Catalog No.: 0373

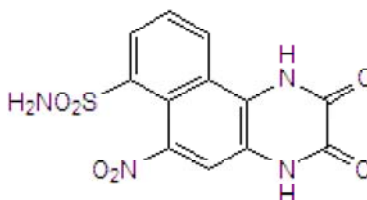
Batch No.: 17

CAS Number: 118876-58-7

IUPAC Name: 2,3-Dioxo-6-nitro-1,2,3,4-tetrahydrobenzo[f]quinoxaline-7-sulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₈N₄O₆S
Batch Molecular Weight: 336.28
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.86	2.4	16.66
Found	42.89	2.41	16.44

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: 2,3-Dioxo-6-nitro-1,2,3,4-tetrahydrobenzo[f]quinoxaline-7-sulfonamide

Description:

Potent, selective and competitive AMPA receptor antagonist. Neuroprotective and anticonvulsant; active in vivo. Disodium Salt also available.

Physical and Chemical Properties:

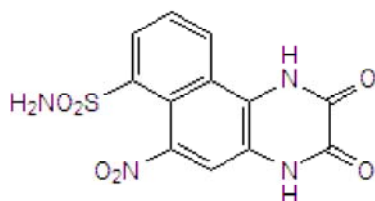
Batch Molecular Formula: C₁₂H₈N₄O₆S

Batch Molecular Weight: 336.28

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

1mM aqueous solutions of this product are best prepared using 2.5eq. of NaOH and back-titrating to pH 8-8.5 with concentrated HCl.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold with the permission of Novo Nordisk A/S

References:

Namba et al (1994) Antiepileptogenic and anticonvulsant effects of NBQX, a selective AMPA receptor antagonist, in the rat kindling model of epilepsy. *Brain Res.* **638** 36. PMID: 8199874.

Sheardown et al (1993) The pharmacology of AMPA receptors and their antagonists. *Stroke* **24** 146. PMID: 7504337.

Gill et al (1992) The neuroprotective actions of 2,3-dihydroxy-6-nitro-7-sulfamoylbenzo(f)quinoxaline (NBQX) in a rat focal ischaemia model. *Brain Res.* **580** 35. PMID: 1504814.

Zeman and Lodge (1992) Pharmacological characterization of non-NMDA subtypes of glutamate receptors in the neonatal rat hemisectioned spinal cord *in vitro*. *Br.J.Pharmacol.* **106** 367. PMID: 1382781.

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