

Product Name: DNQX

Catalog No.: 0189

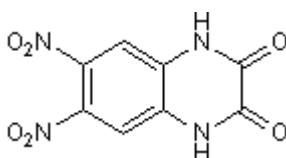
Batch No.: 14

CAS Number: 2379-57-9

IUPAC Name: 6,7-Dinitroquinoxaline-2,3-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₄N₄O₆
Batch Molecular Weight: 252.14
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.31 (Chloroform:Methanol [9:1])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	38.11	1.6	22.22
Found	38.17	1.54	22.17

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

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IUPAC Name: 6,7-Dinitroquinoxaline-2,3-dione

Description:

Selective non-NMDA receptor antagonist. DNQX disodium salt (Cat. No. 2312) also available.

Physical and Chemical Properties:

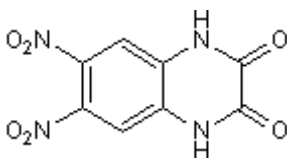
Batch Molecular Formula: C₈H₄N₄O₆

Batch Molecular Weight: 252.14

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

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.

References:

Honore et al (1988) Quinoxalinediones: potent competitive non-NMDA glutamate receptor antagonists. *Science* **241** 701. PMID: 2899909.

Watkins et al (1990) Structure-activity relationships in the development of excitatory amino acid receptor agonists and competitive antagonists. *TiPS* **11** 25. PMID: 2155495.

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