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: \( \text{C}_{12}\text{H}_8\text{N}_4\text{O}_6\text{S} \)
Batch Molecular Weight: 336.28
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
\(^1\text{H} \text{NMR}: \) Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Found</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>
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CAS Number: 118876-58-7

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: C_{12}H_{8}N_{4}O_{5}S
- 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:**