

**Product Name:** PEAQX tetrasodium salt

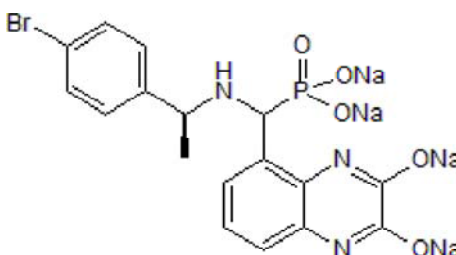
**Catalog No.:** 5018

**Batch No.:** 2

**IUPAC Name:** [((1S)-1-(4-Bromophenyl)ethyl)amino](1,2,3,4-tetrahydro-2,3-dioxo-5-quinoxaliny)methyl] phosphonic acid tetrasodium salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>13</sub>BrN<sub>3</sub>Na<sub>4</sub>O<sub>5</sub>P.3H<sub>2</sub>O  
**Batch Molecular Weight:** 596.19  
**Physical Appearance:** Off White solid  
**Solubility:** water to 10 mM with gentle warming  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	34.25	3.21	7.05
Found	33.98	3.34	7.1

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

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**Description:**

Potent NMDA receptor antagonist (IC<sub>50</sub> = 8 nM). Exhibits >100-fold selectivity for hGluN2A (formally hNR2A) containing receptors over hGluN2B (hNR2B). Anticonvulsant in vivo. Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

**Physical and Chemical Properties:**

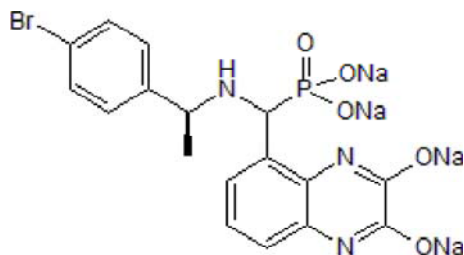
Batch Molecular Formula: C<sub>17</sub>H<sub>13</sub>BrN<sub>3</sub>Na<sub>4</sub>O<sub>5</sub>P.3H<sub>2</sub>O

Batch Molecular Weight: 596.19

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Auberson et al** (2002) 5-Phosphonomethylquinoxalinediones as competitive NMDA receptor antagonists with a preference for the human 1A/2A, rather than 1A/2B receptor composition. *Bioorg.Med.Chem.Lett.* **12** 1099. PMID: 11909726.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 10 mM with gentle warming

**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.

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