

Product Name: PEAQX tetrasodium salt

Catalog No.: 5018

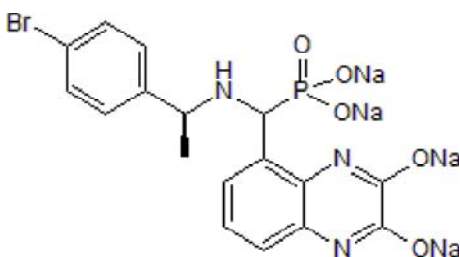
Batch No.: 1

CAS Number: 2102348-87-6

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: C₁₇H₁₃BrN₃Na₄O₅P.5H₂O
Batch Molecular Weight: 632.22
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% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	32.3	3.67	6.65
Found	32.56	3.72	6.66

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

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Description:

Potent NMDA receptor antagonist (IC₅₀ = 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:

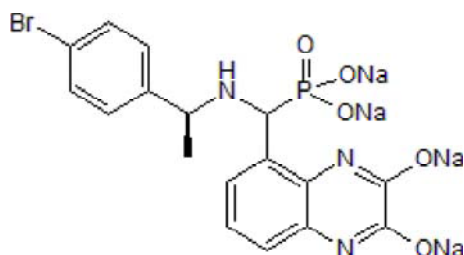
Batch Molecular Formula: C₁₇H₁₃BrN₃Na₄O₅P·5H₂O

Batch Molecular Weight: 632.22

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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