Data Sheet (Cat.No.T4171)

PEAQX

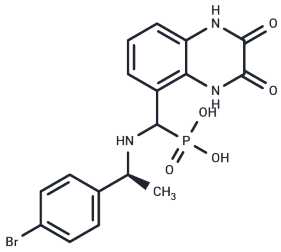
Chemical Properties

CAS No. : 459836-30-7

Formula: C17H17BrN3O5P

Molecular Weight: 454.21

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	PEAQX (NVP-AAM077)(NVP-AAM 077) is an effective and orally available NMDA antagonist. It can inhibit human NMDA receptors for 1A/2A(IC50: 270 nM), rather than 1A/2B(29, 600 nM).
Targets(IC50)	Apoptosis,Caspase,NMDAR,iGluR

Solubility Information

Solubility	DMSO: 6 mg/mL (13.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2016 mL	11.0081 mL	22.0162 mL
5 mM	0.4403 mL	2.2016 mL	4.4032 mL
10 mM	0.2202 mL	1.1008 mL	2.2016 mL
50 mM	0.044 mL	0.2202 mL	0.4403 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Auberson YP, et al. 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. 2002 Apr 8;12 (7):1099-102.
Liu T, Shi J, Wu D, et al.THSG alleviates cerebral ischemia/reperfusion injury via the GluN2B-CaMKII-ERK1/2 pathway.Phytomedicine.2024: 155595.
Anastasio NC, et al. Differential role of N-methyl-D-aspartate receptor subunits 2A and 2B in mediating phencyclidine-induced perinatal neuronal apoptosis and behavioral deficits. Neuroscience. 2009 Nov 10;163(4): 1181-91.