Product Name: PEAQX tetrasodium hydrate

CAS No.: 560.15

Cat. No.: HY-12294A

MWt: 560.15

Formula: C17H15BrN3Na4O6P

Purity: >98%

Solubility: Water 45 mg/ml

Mechanisms: Pathways: Membrane Transporter/Ion Channel; Target: NMDA Receptor

Biological Activity:

PEAQX (NVP-AAM 077) is a potent and orally active NMDA antagonist with a 15-fold preference for human NMDA receptors with the 1A/2A (IC50 = 270 nM), rather than 1A/2B (29,600 nM).

Target: NR2A antagonist

IC50 value: 270 nM (hNMDA A1/A2) [1]

Pathways: Membrane Transporter/Ion Channel; Target: NMDA Receptor

Pathways: Neuronal Signaling; Target: NMDA Receptor

in vitro: PEAQX has a high binding affinity for NMDA receptors (IC50 = 8 nM), and a functional preference in excess of 100-fold for hNMDA 1A/2A (IC50 = 270 nM) over 1A/2B receptors (IC50 = 29,600 nM) [1].

in vivo: PEAQX displays an ED50 value of 23 mg/kg in the MES test [1]. Sprague-Dawley rats were treated on PN7, PN9, and PN11 with PCP (10 mg/kg), PEAQX (NR2A-preferring antagonist; 10, 20, or 40 mg/kg), or ifenprodil (selective NR2B antagonist; 1, 5, or 10 mg/kg), and sacrificed for measurement of caspase-3 activity (an index of apoptosis) or allowed to age and t...

References:


Caution: Not fully tested. For research purposes only

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