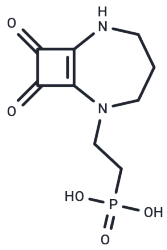
Data Sheet (Cat.No.T16473)

TargetMol

Perzinfotel

Chemical Properties



CAS No. : 144912-63-0

Formula: C9H13N2O5P

Molecular Weight: 260.18

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Perzinfotel displays high affinity (IC50=30 nM) for the glutamate site. Perzinfotel is an effective, selective, and competitive NMDA receptor antagonist with neuroprotective effects.
Targets(IC50)	NMDAR
In vitro	Perzinfotel blocks NMDA-induced currents (IC50: 0.48 μM) and glutamate-induced neurotoxicity (IC50: 1.6 μM)[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8435 mL	19.2175 mL	38.4349 mL
5 mM	0.7687 mL	3.8435 mL	7.687 mL
10 mM	0.3843 mL	1.9217 mL	3.8435 mL
50 mM	0.0769 mL	0.3843 mL	0.7687 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.

Reference

Brandt MR, et al. Effects of the N-methyl-D-aspartate receptor antagonist perzinfotel [EAA-090; [2-(8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl)-ethyl]phosphonic acid] on chemically induced thermal hypersensitivity. J Pharmacol Exp Ther. 2005 Jun;313(3):1379-86.

Kinney WA, et al. Design and synthesis of [2-(8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl)-ethyl]phosphonic acid(EAA-090), a potent N-methyl-D-aspartate antagonist, via the use of 3-cyclobutene-1,2-dione as an achiral alpha-amino acid bioisostere. J Med Chem. 1998 Jan 15;41(2):236-46.

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