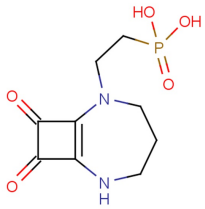
Data Sheet (Cat.No.T16473)

TargetMol
A DRUG SCREENING EXPERT

Perzinfotel

Chemical Properties



CAS No.:	144912-63-0
Formula:	C9H13N2O5P
Molecular Weight:	260.18
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

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(IC_{50})	NMDA receptor: None
In vitro	Perzinfotel blocks NMDA-induced currents (IC50: 0.48 μM) and glutamate-induced neurotoxicity (IC50: 1.6 μM) [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.843 mL	19.217 mL	38.435 mL
5 mM	0.769 mL	3.843 mL	7.687 mL
10 mM	0.384 mL	1.922 mL	3.843 mL
50 mM	0.077 mL	0.384 mL	0.769 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

2. 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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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481