

DL-AP3

Chemical Properties

CAS No. :	5652-28-8
Formula:	C ₃ H ₈ NO ₅ P
Molecular Weight:	169.07
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	DL-AP3 is a competitive group I metabotropic glutamate receptor antagonist and inhibitor of phosphoserine phosphatase.
Targets(IC50)	Endogenous Metabolite,GluR,Phosphatase

Solubility Information

Solubility	H ₂ O: 12.05 mg/mL (71.27 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.9147 mL	29.5735 mL	59.1471 mL
5 mM	1.1829 mL	5.9147 mL	11.8294 mL
10 mM	0.5915 mL	2.9574 mL	5.9147 mL
50 mM	0.1183 mL	0.5915 mL	1.1829 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

Di C , Xu J , Xu Q , et al. DL-2-amino-3-phosphonopropionic acid protects primary neurons from oxygen-glucose deprivation induced injury[J]. Bosn J Basic Med, 2017, 17(1).

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