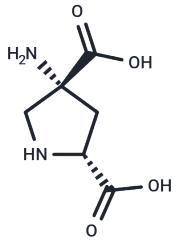
Data Sheet (Cat.No.T10095)

TargetMol

(2R,4R)-APDC

Chemical Properties



CAS No. : 169209-63-6

Formula: C6H10N2O4

Molecular Weight: 174.15

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	(2R,4R)-APDC, a selective group II metabotropic glutamate receptors (mGluRs) agonist, exhibits anticonvulsant and neuroprotective effects.
Targets(IC50)	Others,GluR
In vivo	(2R,4R)-APDC (1-10 nmol; ICV; daily for 14 days) decreases cell proliferation in the dentate gyrus [2].
Animal Research	Animal Model: Adult male Sprague-Dawley rats weighing between 300 and 350 g. Dosage: 1 nmol/10 μl; 10 nmol/10μl. Administration: ICV; daily for 14 days [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.7422 mL	28.7109 mL	57.4218 mL
5 mM	1.1484 mL	5.7422 mL	11.4844 mL
10 mM	0.5742 mL	2.8711 mL	5.7422 mL
50 mM	0.1148 mL	0.5742 mL	1.1484 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

Folbergrová J, et al. Posttreatment with group II metabotropic glutamate receptor agonist 2R,4R-4-aminopyrrolidine-2,4-dicarboxylate is only weakly effective on seizures in immature rats. Brain Res. 2009 Jun 1; 1273:144-54.

Yao H, et al. 2R, 4R-APDC decreases cell proliferation in the dentate gyrus of adult rats: the effect of 2R, 4R-APDC on cell proliferation. Neuroreport. 2007 Sep 17;18(14):1459-62.

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