

## DL-AP5 lithium

## Chemical Properties

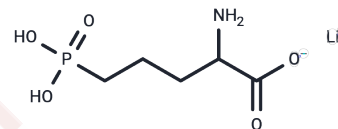
CAS No. : 125229-62-1

Formula: C<sub>5</sub>H<sub>11</sub>LiNO<sub>5</sub>P

Molecular Weight: 203.06

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-AP5 (2-APV) lithium is a competitive antagonist of the NMDA (N-Methyl-D-aspartate) receptor. It exhibits notable analgesic activity and specifically blocks channels in the rabbit retina.
Targets(IC50)	iGluR
In vitro	DL-AP5 (100 μM) mitigates the elevation of Arc/Arg3.1 protein levels caused by glutamate exposure and reduces NMDA-induced upregulation of Arc/Arg3.1.
In vivo	DL-AP5, when administered intra-CA1 (0-10 μg/rat), significantly diminishes NMDA's effects. At a range of 0-10 nmol via intracerebroventricular injection, it elicits a dose-dependent escalation in food intake. Moreover, a specific dose of 5 nmol of DL-AP5 via the same route effectively mitigates the reduction in food consumption that is typically prompted by an intracerebroventricular injection of ghrelin.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9247 mL	24.6233 mL	49.2465 mL
5 mM	0.9849 mL	4.9247 mL	9.8493 mL
10 mM	0.4925 mL	2.4623 mL	4.9247 mL
50 mM	0.0985 mL	0.4925 mL	0.9849 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481