

## DL-AP5

Catalog Number :7633136

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Synonyms:** APV acid, 2-Amino-5-phosphovaleric acid,

**Chemical Name:** 2-amino-5-phosphonopentanoic acid

**Molecular Formula:** C<sub>5</sub>H<sub>12</sub>NO<sub>5</sub>P

**Molecular Weight:** 197.1

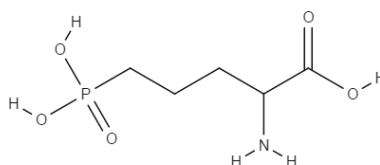
**CAS Number:** 76326-31-3

**Purity:** ≥95%

**Applications:** FA

**Formulation:** Crystalline solid

**Storage:** Product should be kept at -20°C.



### Description

DL-AP5 is the racemic version of AP5, a selective N-methyl-D-aspartate (NMDA) receptor antagonist that binds at glutamate site. DL-AP5 exhibits less potent NMDA receptor antagonist activity than the D-AP5 version and is used in the research of synaptic plasticity.

### Preparation & Storage

Soluble in organic solvents such as DMSO. DMSO up to 5mg/ml.

### References

1. Steele, R. J., Morris, R. G. M. (1999). Delay-dependent impairment of a matching-to-place task with chronic and intrahippocampal infusion of the NMDA-antagonist D-AP5.;Hippocampus,;9(2), 118-136.
2. Morris, R. G. (1989). Synaptic plasticity and learning: selective impairment of learning rats and blockade of long-term potentiation in vivo by the N-methyl-D-aspartate receptor antagonist AP5.;The Journal of neuroscience,9(9), 3040-3057.
3. Davies, J., Watkins, J. C. (1982). Actions of D and L forms of 2-amino-5-phosphonovalerate and 2-amino-4-phosphonobutyrate in the cat spinal cord.Brain research,;235(2), 378-386.