

D-AP5

Catalog Number :7908985

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

Product Information

Synonyms: 2-APV, 5 Phosphononorvaline

Chemical Name: (2R)-2-amino-5-phosphonopentanoic acid

Molecular Formula: C₅H₁₂NO₅P

Molecular Weight: 197.1

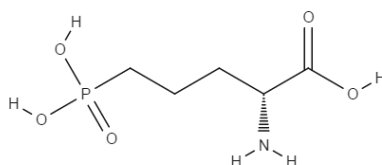
CAS Number: 79055-68-8

Purity: ≥95%

Applications: FA

Formulation: Crystalline solid

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



Description

D-AP5 is a selective N-methyl-D-aspartate (NMDA) receptor antagonist that binds at glutamate site. D-AP5 is reported to be the most active form of AP5 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.