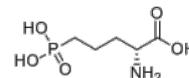


Product Name : D-AP5
Cat. No. : PC-38029
CAS No. : 79055-68-8
Molecular Formula : C₅H₁₂NO₅P
Molecular Weight : 197.127
Target : iGluR
Solubility : 10 mM in DMSO



Biological Activity

D-AP5 is a selective **NMDA receptor** antagonist that competes with glutamate binding with K_d of 1.4 μM, is commonly used to inhibit NMDA-dependent synaptic plasticity.

D-AP5 reduces NMDA-induced depolarization of cortical neurons in vitro.

Following spinal injection, D-AP5 results in rapid reduction of NMDA-response but no effect on spontaneously active neurons.

References

Davies J, et al. *Brain Res.* 1986 Sep 10;382(1):169-73.

Javitt DC, et al. *Neurosci Lett.* 1987 Jul 22;78(2):193-8.

Manallack DT, et al. *Neuroscience.* 1989;30(1):87-94.

Coleman PA, et al. *J Neurosci.* 1988 Dec;8(12):4728-33.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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