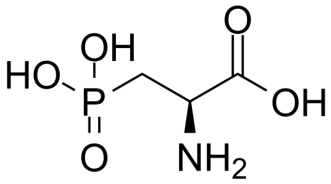
L-AP3

Cat. No.:	HY-108546
CAS No.:	23052-80-4
Molecular Formula:	$C_3H_8NO_5P$
Molecular Weight:	169.07
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-AP3, metabotropic glutamate receptor (mGluR) antagonist, inhibits D-phosphoserine and L-phosphoserine with IC_{50}s of 368 μM and 2087 μM, respectively[1].
In Vitro	L-AP3 inhibits D-phosphoserine and L-phosphoserine with K_is of 151 μM and 845 μM, respectively[1]. L-AP3 has agonistic activity in enhancing phospholipase D activity and decreasing CAMP formation in rat hippocampus[1]. L-AP3 may have selectivity for Group II subtypes since it inhibits [^{3}H]glutamate binding to mGlu3, receptors (K_i 125 μM)[1]. L-AP3 is a potent inhibitor of sodium-dependent L-[^{3}H]glutamate uptake in cerebellar and cortical synaptosomes (39 and 110 μM, respectively)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	L-AP3 has anticonvulsant activity in animals. L-AP3 blocks audiogenic seizures in DBA/2 mice[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. J E Hawkinson, et al. The metabotropic glutamate receptor antagonist L-2-amino-3-phosphonopropionic acid inhibits phosphoserine phosphatase. Eur J Pharmacol. 1996 Jun 27;307(2):219-25.

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