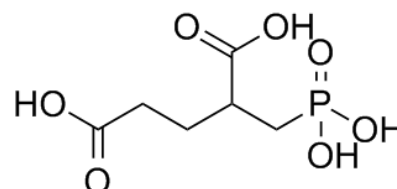


Product Name : 2-PMPA
Cat. No. : PC-42256
CAS No. : 173039-10-6
Molecular Formula : C₆H₁₁O₇P
Molecular Weight : 226.1211
Target : Carboxypeptidase
Solubility : H₂O: ≥ 28 mg/mL
4. Harada C, et al. Neurosci Lett. 2000 Oct 6;292(2):134-6.



Biological Activity

A potent and selective NAALADase (GCPII/PSMA) inhibitor with K_i of 280 pM; has no substantial activity against NMDA, AMPA, mGluRs, and glutamate transporters; potently inhibits oxidative metabolism and glycolysis with IC_{50} of 617 pM in rat cortical cultures; robustly protects against ischemic injury in a neuronal culture model of stroke and in rats after transient middle cerebral artery occlusion, increases NAAG and attenuates the ischemia-induced rise in glutamate.

References

- Slusher BS, et al. Nat Med. 1999 Dec;5(12):1396-402.
Thomas AG, et al. Brain Res. 1999 Oct 2;843(1-2):48-52.
Tortella FC, et al. Eur J Pharmacol. 2000 Aug 18;402(1-2):31-7.

