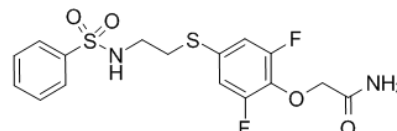


Product Name : PEPA
Cat. No. : PC-43078
CAS No. : 141286-78-4
Molecular Formula : C₁₆H₁₆F₂N₂O₄S₂
Molecular Weight : 402.436
Target : iGluR
Solubility : 10 mM in DMSO



Biological Activity

PEPA is an allosteric potentiator of **AMPA** receptors, potentiates glutamate responses by 50-fold in oocytes expressing GluRCflop (EC₅₀=50 μM).

PEPA dose dependently potentiates glutamate-evoked currents in *Xenopus* oocytes expressing AMPA (GluRA-GluRD), but not kainate (GluR6 and GluR6+KA2) or NMDA (zeta1 + epsilon1-epsilon4), receptor subunits at 1-200 μM.

PEPA markedly slows the rate of onset of desensitization and potentiates steady-state equilibrium currents evoked by glutamate with subunit (GluRC >/= GluRD > GluRA) and splice-variant (flop > flip) selectivity.

References

Sekiguchi M, et al. *J Neurosci.* 1997 Aug 1;17(15):5760-71.

Sekiguchi M, et al. *Br J Pharmacol.* 1998 Apr;123(7):1294-303.

Shen Y, et al. *Neuroscience.* 1999 Mar;89(3):979-90.

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

E-mail: tech@probechem.com