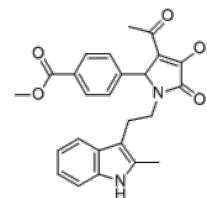


Product Name : PYD-106
Cat. No. : PC-49064
CAS No. : 1560894-05-4
Molecular Formula : C₂₅H₂₄N₂O₅
Molecular Weight : 432.476
Target : iGluR
Solubility : 10 mM in DMSO



Biological Activity

PYD-106 is a GluN2C-selective **NMDA receptor** positive allosteric modulator with EC₅₀ of 13 μ M, enhances the maximal current response of GluN1/GluN2C receptors.

PYD-106 (30 μ M) does not alter responses of NMDA receptors containing GluN2A, GluN2B, and GluN2D and has no effect on AMPA and kainate receptors.

PYD-106 was effective concentration of glutamate and glycine increases the response of GluN1/GluN2C NMDA receptors in HEK-293 cells to 221% (EC₅₀=13 μ M).

PYD-106 increased opening frequency and open time of single channel currents activated by maximally effective concentrations of agonist but only had modest effects on glutamate and glycine EC₅₀.

PYD-106 selectively enhanced the responses of diheteromeric GluN1/GluN2C receptors but not triheteromeric GluN1/GluN2A/GluN2C receptors.

References

Khatri A, et al. *Mol Pharmacol*. 2014 Nov;86(5):548-60.

Kaiser TM, et al. *Mol Pharmacol*. 2018 Feb;93(2):141-156.

Zimmerman SS, et al. *J Med Chem* 57:2334-2356.

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

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