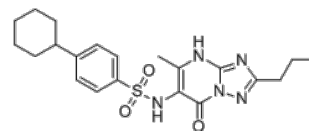


**Product Name** : GNE-9278  
**Cat. No.** : PC-49066  
**CAS No.** : 2315311-83-0  
**Molecular Formula** : C<sub>21</sub>H<sub>27</sub>N<sub>5</sub>O<sub>3</sub>S  
**Molecular Weight** : 429.539  
**Target** : iGluR  
**Solubility** : 10 mM in DMSO



### Biological Activity

GNE-9278 is a potent **NMDAR** positive allosteric modulator (PAM) that acts at the GluN1 transmembrane domain (TMD), robustly potentiates GluN2A, 2B, 2C and 2D-containing NMDARs in calcium influx assays from HEK cell lines with EC<sub>50</sub> values of 0.74, 3.07, 0.47, and 0.32  $\mu$ M, respectively, and maximum fold potentiation of 5.5, 8.4, 10.2 and 7.9, respectively. GNE-9278 is highly selective for NMDARs vs. AMPARs, with no appreciable activity in AMPAR calcium influx assays. GNE-9278 demonstrates robust potentiation of GluN2A, 2B, 2C and 2D-containing NMDARs in electrophysiology experiments in oocytes with EC<sub>50</sub> values of 3.2, 15.7, 6.6 and 6.7  $\mu$ M, respectively, and maximum fold potentiation of 4.6, 12.4, 9.1 and 14.9, respectively. Modulation by GNE-9278 is state-dependent and significantly alters extracellular domain pharmacology.

### References

Tzu-Ming Wang, et al. *Neuropharmacology*. 2017 Jul 15;121:204-218.

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

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