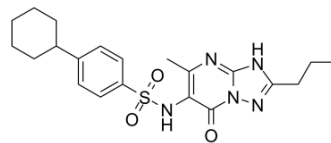


GENE-9278

Cat. No.:	HY-129527
CAS No.:	2315311-83-0
Molecular Formula:	C ₂₁ H ₂₇ N ₅ O ₃ S
Molecular Weight:	429.54
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	GNE-9278 is a highly selective positive allosteric modulator of NMDAR that acts at the GluN1 transmembrane domain (TMD). GNE-9278 acts on activated NMDARs to increase peak current and agonist affinity ^[1] .
IC ₅₀ & Target	NMDAR ^[1]
In Vitro	GNE-9278 (50 μM) slows deactivation with multiple agonists (D-Glu, L-Glu and L-CCG-IV) and enhances the potency of both Glu and Gly ^[1] . GNE-9278 robustly potentiates GluN2A, 2B, 2C and 2D-containing NMDARs as measured by calcium influx assays from HEK cell lines with EC ₅₀ s of 0.74, 3.07, 0.47, and 0.32 μM, respectively ^[1] .

REFERENCES

[1]. Wang TM, et, al. A novel NMDA receptor positive allosteric modulator that acts via the transmembrane domain. *Neuropharmacology*. . 2017 Jul 15; 121: 204-218.

Caution: Product has not been fully validated for medical applications. For research use only.

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