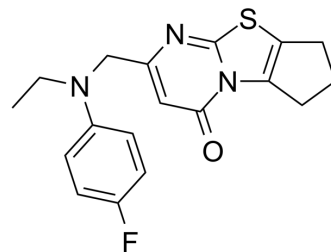


GNE-8324

Cat. No.:	HY-107498
CAS No.:	1698901-76-6
Molecular Formula:	C ₁₈ H ₁₈ FN ₃ OS
Molecular Weight:	343.42
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GNE-8324 is a selective GluN2A positive allosteric modulator. GNE-8324 selectively enhances NMDA receptor (NMDAR)-mediated synaptic responses in inhibitory but not excitatory neurons ^[1] .
In Vitro	A reciprocal allosteric interaction between the GNE-8324 and glutamate binding sites at GluN2A NMDARs such that binding of glutamate enhances binding of GNE-8324 and vice versa. GNE-8324 selectively potentiates GluN2A subunit-containing NMDARs. As a consequence, GNE-8324 potentiation is highly dependent on glutamate site occupancy with enhanced GNE-8324 binding to glutamate-bound NMDARs compared to glutamate-free NMDARs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lulu Yao, et al. Higher ambient synaptic glutamate at inhibitory versus excitatory neurons differentially impacts NMDA receptor activity. Nat Commun. 2018 Oct 1;9(1):4000.

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

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