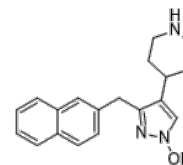


Product Name : DDL-920
Cat. No. : PC-22875
CAS No. : 1236105-84-2
Molecular Formula : C₁₉H₂₁N₃O
Molecular Weight : 307.40
Target : GABA Receptor
Solubility : 10 mM in DMSO



CAS: 1236105-84-2

Biological Activity

DDL-920 is a potent, selective and brain permeable negative allosteric modulator (NAM) of the γ -aminobutyric acid type A receptors (**GABAARs**), inhibits parvalbumin (PV) expressing interneurons (PV+INs) and consequently enhances γ -oscillations both in vitro and in vivo.

DDL-920 (1 nM) increases the power of the γ -oscillations, blocks >75% of tonic inhibition of PV+INs with only a negligible effect on their phasic inhibition in vitro.

DDL-920 increases γ -oscillations and improves cognition/memory in a mouse model of Alzheimer's disease (AD).

DDL-920 (10 mg/kg, oral) restored the cognitive/memory impairments of 3- to 4-mo-old AD model mice as measured by their performance in the Barnes maze.

References

Wei X, et al. *Proc Natl Acad Sci U S A*. 2024 Aug 13;121(33):e2400420121.

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

E-mail: tech@probechem.com