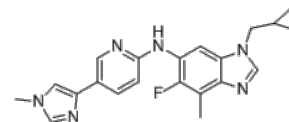


Product Name : ONO-8590580
Cat. No. : PC-63442
CAS No. : 1802661-73-9
Molecular Formula : C₂₁H₂₁FN₆
Molecular Weight : 376.439
Target : GABA Receptor
Solubility : 10 mM in DMSO



Biological Activity

ONO-8590580 (ONO 8590580) is a novel potent, selective **GABAA α 5 negative allosteric modulator**, binds to the benzodiazepine binding sites on recombinant human α 5-containing GABAA receptors with K_i of 7.9 nM.

ONO-8590580 shows functionally selective GABAA α 5 NAM activity for GABA-induced Cl⁻ channel activity with a maximum 44.4% inhibition and an EC₅₀ of 1.1 nM.

ONO-8590580 significantly augments tetanus-induced long-term potentiation of CA1 synapse response in rat hippocampal slices at 300 nM.

ONO-8590580 significantly prevents MK-801-induced memory deficit in vivo (3-20 mg/kg, p.o.).

References

Kawaharada S, et al. *J Pharmacol Exp Ther.* 2018 Apr 19. pii: jpet.117.247627.

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

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