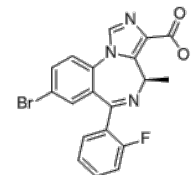


Product Name : MIDD0301
Cat. No. : PC-63310
CAS No. : 2187489-08-1
Molecular Formula : C₁₉H₁₃BrFN₃O₂
Molecular Weight : 414.234
Target : GABA Receptor
Solubility : 10 mM in DMSO



Biological Activity

MIDD0301 (GL-II-93) is a potent, positive allosteric, **$\alpha 5\beta 3\gamma 2$** selective, **GABAA** receptor (GABAAR) ligand with EC₅₀ of 17 nM, shows no significant binding at the peripheral GABAAR at 10 μ M.

MIDD0301 causes amplification of GABA induced current mediated by $\alpha 1-3,5\beta 3\gamma 2$ GABAARs in the presence of MIDD0301 in automated patch clamp test.

MIDD0301 relaxes airway smooth muscle at single micromolar concentrations as demonstrated with ex vivo guinea pig tracheal rings, also attenuates airway hyperresponsiveness (AHR) in an ovalbumin murine model of asthma by oral administration, with low brain distribution.

MIDD0301 reduces lung cytokine expression of IL-17A, IL-4, and TNF- α , as wells as the number of CD4+ T cells.

References

Forkuo GS, et al. *Mol Pharm*. 2018 Apr 2. doi: 10.1021/acs.molpharmaceut.7b01013.

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

E-mail: tech@probechem.com