

Product Name : MIDD0301

Synonyms : MIDD 0301;MIDD-0301

Cat No. : M13489

CAS Number : 2187489-08-1

Molecular Formula : C19H13BrFN3O2

Formula Weight : 414.23

Chemical Name : (R)-8-bromo-6-(2-fluorophenyl)-4-methyl-4H-benzo[f]imidazo[1,5-a][1,4]diazepine-3-carboxylic acid

MIDD0301 is a potent, positive allosteric, $\alpha5\beta3\gamma2$ selective, GABAA receptor (GABAAR) ligand with EC50 of 17 nM, shows no significant binding at the peripheral GABAAR at 10 uM; causes amplification of GABA induced current mediated by $\alpha1$ -3,5 $\beta3\gamma2$ GABAARs in the presence of MIDD0301 in automated patch clamp test; relaxes airway smooth muscle at single

Description

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hyperresponsiveness (AHR) in an ovalbumin murine model of asthma by oral administration, with low brain distribution;

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

Pathway : Membrane Transporter/Ion Channel

Target : GAT

Receptor : GAT

Solubility : —

SMILES : —

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

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