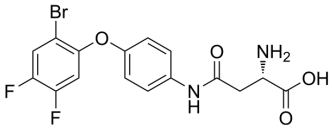
WAY-213613

Cat. No.:	HY-107523
CAS No.:	868359-05-1
Molecular Formula:	$C_{16}H_{13}BrF_2N_2O_4$
Molecular Weight:	415.19
Target:	EAAT
Pathway:	Membrane Transporter/Ion Channel
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	WAY-213613 is a potent and selective human EAAT2 inhibitor. WAY-213613 has potent EAAT2 inhibitory activity with an IC_{50} value of 85 nM. WAY-213613 can be used for the research of central nervous system[1][2]
IC_{50} & Target	EAAT2
In Vitro	WAY-213613 (0-100 μM) has inhibitory activity for human EAAT1, EAAT2 and EAAT3 subtype with IC_{50} values of 5004 nM, 85 nM and 3787 nM, respectively[1]. WAY-213613 (3, 30, 300 nM) has the inhibitory effect on synaptosomal L-[^{3}H] glutamate uptake with K_i values of 15 nM, 41 nM and 55 nM in the presence of 3, 30 and 300 nM, respectively[1]. WAY-213613 (0-100 μM) produces a concentration-dependentblock of glutamate-induced currents in EAAT1-, EAAT2- orEAAT3-injected oocytes, with IC_{50} values of 48, 0.13 and 4.0 μM, respectively[1]. WAY-213613 (0.5–50 μM) exhibits good selectivity over ionotropic receptors and EAAT2 and potent activity toward blocking NMDA-stimulated responses[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Commun. 2022 Jun 9;13(1):3329.
- Ann Transl Med. 2020 Jun;8(11):691.

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REFERENCES

[1]. Dunlop J, et al. Characterization of novel aryl-ether, biaryl, and fluorene aspartic acid and diaminopropionic acid analogs as potent inhibitors of the high-affinity glutamate transporter EAAT2. Mol Pharmacol. 2005 Oct;68(4):974-82. Epub 2005 Jul 13.

[2]. Simmons DA, et al. A small molecule p75NTR ligand, LM11A-31, reverses cholinergic neurite dystrophy in Alzheimer's disease mouse models with mid- to late-stage

disease progression. PLoS One. 2014 Aug 25;9(8):e102136.

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