

EAAT2

Excitatory amino acid transporter 2; Glutamate transporter 1; GLT-1

Excitatory amino acid transporter 2 (EAAT2) is the major glutamate transporter and functions to remove glutamate from synapses. An increase in EAAT2 protein expression and function may provide a means to prevent insufficient glutamate reuptake and consequently reduce neuronal damage.

The glial glutamate transporter EAAT2 plays a major role in glutamate clearance. EAAT2 can be upregulated by transcriptional or translational activation. EAAT2 is a potential target for the prevention of excitotoxicity.

EAAT2 Inhibitors, Agonists & Activators

DL-TBOA

Cat. No.: HY-107522

DL-TBOA is a potent non-transportable inhibitor of excitatory amino acid transporters with IC so of $70~\mu\text{M},\,6~\mu\text{M}$ and $6~\mu\text{M}$ for excitatory amino acid transporter-1 (EAAT1), EAAT2 and EAAT3, respectively.

Relative stereochemistry

Purity: 99.68%

Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg

Purity: >98%

Clinical Data: No Development Reported

Size: 1 mg, 5 mg

EAAT3, respectively.

DL-TBOA ammonium

Cat. No.: HY-107522B

 $\bar{N}H_2$

Relative stereochemistry

LDN-212320

(LDN-0212320; OSU-0212320)

LDN-212320 (LDN-0212320) is a glutamate transporter (GLT-1)/excitatory amino acid transporter 2 (EAAT2) activator (at translational level). LDN-212320 (LDN-0212320) prevents nociceptive pain by upregulating astroglial GLT-1 expression in the hippocampus and ACC.

DL-TBOA ammonium is a potent non-transportable

inhibitor of excitatory amino acid transporters with $\text{IC}_{\text{50}}\text{s}$ of 70 $\mu\text{M},\,6~\mu\text{M}$ and 6 μM for excitatory

amino acid transporter-1 (EAAT1), EAAT2 and

Clinical Data: No Development Reported

Cat. No.: HY-12741

Purity:

10 mM × 1 mL, 10 mg, 50 mg

GT 949

Cat. No.: HY-114381

GT 949 is a selective excitatory amino acid transporter-2 (EAAT2) positive allosteric modulator with an EC₅₀ of 0.26 nM.

Purity:

Clinical Data: No Development Reported

10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

WAY-213613

Cat. No.: HY-107523

WAY-213613 is a potent, selective nonsubstrate reuptake inhibitor of GLT-1/EAAT2 with IC₅₀ of 85 nM EAAT2. It displays 59- and 44-fold selectivity over EAAT1 and EAAT3 (IC $_{50}$ s are 5 and 3.8 μ M, respectively).

Purity: ≥99.0%

Clinical Data: No Development Reported

Size: 5 mg

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WAY-213613 hydrochloride

Cat. No.: HY-107523A

WAY-213613 hydrochloride is a potent, selective nonsubstrate reuptake inhibitor of GLT-1/EAAT2 with IC_{so} of 85 nM EAAT2. It displays 59- and 44-fold selectivity over EAAT1 and EAAT3 (IC₅₀s are 5 and 3.8 μM, respectively).

Purity:

Clinical Data:

Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg