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Inhibitors, Screening Libraries, Proteins

# 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

<p><b>Dihydrokainic acid</b></p> <p>Cat. No.: HY-100784</p> <p>Dihydrokainic acid (DHK) is a glutamate transporter <b>GLT1 (EAAT2)</b> inhibitor. Dihydrokainic acid impairs novel object recognition (NOR) memory performance in mice. Dihydrokainic acid also shows epileptogenic effects.</p> <p><b>Purity:</b> &gt;98%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 1 mg, 5 mg</p>	<p><b>DL-TBOA</b></p> <p>Cat. No.: HY-107522</p> <p>DL-TBOA is a potent non-transportable inhibitor of excitatory amino acid transporters with <math>IC_{50}</math>s of 70 <math>\mu</math>M, 6 <math>\mu</math>M and 6 <math>\mu</math>M for <b>excitatory amino acid transporter-1 (EAAT1)</b>, <b>EAAT2</b> and <b>EAAT3</b>, respectively.</p> <p><b>Purity:</b> 99.68%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg</p>
<p><b>DL-TBOA ammonium</b></p> <p>Cat. No.: HY-107522B</p> <p>DL-TBOA ammonium is a potent non-transportable inhibitor of <b>excitatory amino acid transporters</b> with <math>IC_{50}</math>s of 70 <math>\mu</math>M, 6 <math>\mu</math>M and 6 <math>\mu</math>M for <b>excitatory amino acid transporter-1 (EAAT1)</b>, <b>EAAT2</b> and <b>EAAT3</b>, respectively.</p> <p><b>Purity:</b> &gt;98%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 1 mg, 5 mg</p>	<p><b>EAAT2 activator 1</b></p> <p>Cat. No.: HY-139692</p> <p>EAAT2 activator 1 is the potent activator of <b>excitatory amino acid transporter 2 (EAAT2)</b>. EAAT2 is the major glutamate transporter and functions to remove glutamate from synapses. EAAT2 activator 1 increases EAAT2 protein levels dose-dependently.</p> <p><b>Purity:</b> 98.97%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>
<p><b>GT 949</b></p> <p>Cat. No.: HY-114381</p> <p>GT 949 is a selective excitatory amino acid transporter-2 (<b>EAAT2</b>) positive allosteric modulator with an <math>EC_{50}</math> of 0.26 nM.</p> <p><b>Purity:</b> 99.58%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>	<p><b>LDN-212320</b></p> <p>(LDN-0212320; OSU-0212320) Cat. No.: HY-12741</p> <p>LDN-212320 (LDN-0212320) is a <b>glutamate transporter (GLT-1)/excitatory amino acid transporter 2 (EAAT2)</b> activator (at translational level). LDN-212320 (LDN-0212320) prevents nociceptive pain by upregulating astroglial GLT-1 expression in the hippocampus and ACC.</p> <p><b>Purity:</b> <math>\geq</math>98.0%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p><b>TFB-TBOA</b></p> <p>(CF3-Bza-TBOA) Cat. No.: HY-107521</p> <p>TFB-TBOA (CF3-Bza-TBOA) is a potent <b>glutamate transporter</b> blocker that potently suppresses the activity of glial transporters.</p> <p><b>Purity:</b> &gt;98%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 5 mg</p>	<p><b>WAY-213613</b></p> <p>Cat. No.: HY-107523</p> <p>WAY-213613 is a potent, selective nonsubstrate reuptake inhibitor of <b>GLT-1/EAAT2</b> with <math>IC_{50}</math> of 85 nM EAAT2. It displays 59- and 44-fold selectivity over EAAT1 and EAAT3 (<math>IC_{50}</math>s are 5 and 3.8 <math>\mu</math>M, respectively).</p> <p><b>Purity:</b> <math>\geq</math>99.0%  <b>Clinical Data:</b> No Development Reported  <b>Size:</b> 5 mg</p>
<p><b>WAY-213613 hydrochloride</b></p> <p>Cat. No.: HY-107523A</p> <p>WAY-213613 hydrochloride is a potent, selective nonsubstrate reuptake inhibitor of <b>GLT-1/EAAT2</b> with <math>IC_{50}</math> of 85 nM EAAT2. It displays 59- and 44-fold selectivity over EAAT1 and EAAT3 (<math>IC_{50}</math>s are 5 and 3.8 <math>\mu</math>M, respectively).</p> <p><b>Purity:</b> 98.63%  <b>Clinical Data:</b>  <b>Size:</b> 10 mM <math>\times</math> 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</p>	