Recombinant Human SLC1A3

Cat. No. SLC1A3-26509TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 162-237 of Human EAAT1 with an N terminal proprietary tag; Predicted MWt 33.99.
Species	Human
Source	Wheat Germ
ProteinLength	76 amino acids
Description	This gene encodes a member of a member of a high affinity glutamate transporter family. Mutations in this gene are associated with episodic ataxia, Type 6. Alternative splicing results in multiple transcript variants.
Molecular Weight	33.990kDa inclusive of tags
Tissue specificity	Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Sequences of amino acids	VRVTAADAFLDLIRNMFPPNLVEACFKQFKTNYEKRSFKVPIQANETLVGAVINNVSEAMETLTRITEELVPVPGS
Sequence Similarities	Belongs to the sodium:dicarboxylate (SDF) symporter (TC 2.A.23) family. SLC1A3 subfamily.

GENE INFORMATION

Gene Name	SLC1A3 solute carrier family 1 (glial high affinity glutamate transporter), member 3 [Homo sapiens]
Official Symbol	SLC1A3
Synonyms	SLC1A3; solute carrier family 1 (glial high affinity glutamate transporter), member 3; excitatory amino acid transporter 1; EA6; EAAT1; GLAST; glutamate transporter variant EAAT1ex9skip;
Gene ID	6507
mRNA Refseq	NM_001166695
Protein Refseq	NP_001160167
MIM	600111
Uniprot ID	P43003
Chromosome Location	5p13

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Pathway	Astrocytic Glutamate-Glutamine Uptake And Metabolism, organism-specific biosystem; Glutamatergic synapse, organism-specific biosystem; Glutamatergic synapse, conserved biosystem; Neuronal System, organism-specific biosystem; Neurotransmitter uptake and Metabolism In Glial Cells, organism-specific biosystem;
Function	L-glutamate transmembrane transporter activity; glutamate binding; high-affinity glutamate transmembrane transporter activity; sodium:dicarboxylate symporter activity; symporter activity;

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