

Recombinant Human SLC1A2 Protein (M1-K574), 8xHis-MBP, Flag tagged

Cat. No. SLC1A2-1213H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human 8His-MBP-TEV-(G)-SLC1A2(M1-K574 end)-Flag Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	M1-K574
Description	Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate. Functions as a symporter that transports one amino acid molecule together with two or three Na ⁽⁺⁾ ions and one proton, in parallel with the counter-transport of one K ⁽⁺⁾ ion. Mediates Cl ⁽⁻⁾ flux that is not coupled to amino acid transport; this avoids the accumulation of negative charges due to aspartate and Na ⁽⁺⁾ symport. Essential for the rapid removal of released glutamate from the synaptic cleft, and for terminating the postsynaptic action of glutamate.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%

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Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Formulation:
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	SLC1A2 solute carrier family 1 (glial high affinity glutamate transporter), member 2 [Homo sapiens (human)]
Official Symbol	SLC1A2
Synonyms	SLC1A2; solute carrier family 1 (glial high affinity glutamate transporter), member 2; excitatory amino acid transporter 2; EAAT2; GLT 1; glutamate/aspartate transporter II; excitotoxic amino acid transporter 2; sodium-dependent glutamate/aspartate transporter 2; GLT-1;
Gene ID	6506
mRNA Refseq	NM_001195728
Protein Refseq	NP_001182657
MIM	600300
UniProt ID	P43004

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