

Recombinant Human SLC1A1 Protein (G2-F524), 8xHis-MBP, Flag tagged

Cat. No. SLC1A1-1212H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human 8His-MBP-TEV-(GG)-SLC1A1(G2-F524)-Flag Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	G2-F524
Description	Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate. Can also transport L-cysteine. 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 (). Plays an important role in L-glutamate and L-aspartate reabsorption in renal tubuli. Plays a redundant role in the rapid removal of released glutamate from the synaptic cleft, which is essential for terminating the postsynaptic action of glutamate. Contributes to glutathione biosynthesis and protection against oxidative stress via its role in L-glutamate and L-cysteine transport. Negatively regulated by ARL6IP5.
Form	Liquid
Endotoxin	< 0.01 EU per

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	µg of the protein
Purity	95%
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	SLC1A1 solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1 [Homo sapiens (human)]
Official Symbol	SLC1A1
Synonyms	SLC1A1; solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1; excitatory amino acid transporter 3; EAAC1; EAAT3; excitatory amino acid carrier 1; solute carrier family 1 member 1; neuronal and epithelial glutamate transporter; sodium-dependent glutamate/aspartate transporter 3;
Gene ID	6505
mRNA Refseq	NM_004170
Protein Refseq	NP_004161

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MIM	133550
UniProt ID	P43005

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