

Recombinant Human SLC1A1 protein, His & T7-tagged

Cat. No. SLC1A1-1194H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC1A1 aa. (Ser115~Gly209 (Accession # P43005) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser115~Gly209
Description	This gene encodes a member of the high-affinity glutamate transporters that play an essential role in transporting glutamate across plasma membranes. In brain, these transporters are crucial in terminating the postsynaptic action of the neurotransmitter glutamate, and in maintaining extracellular glutamate concentrations below neurotoxic levels. This transporter also transports aspartate, and mutations in this gene are thought to cause dicarboxylicamino aciduria, also known as glutamate-aspartate transport defect.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 14.3kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 5.4.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	SLC1A1 solute carrier family 1 member 1 [Homo sapiens (human)]
Official Symbol	SLC1A1
Synonyms	SLC1A1; solute carrier family 1 member 1; DCBXA; EAAC1; EAAT3; SCZD18; excitatory amino acid transporter 3; excitatory amino acid carrier 1; neuronal and epithelial glutamate transporter; sodium-dependent glutamate/aspartate transporter 3; solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1
Gene ID	6505

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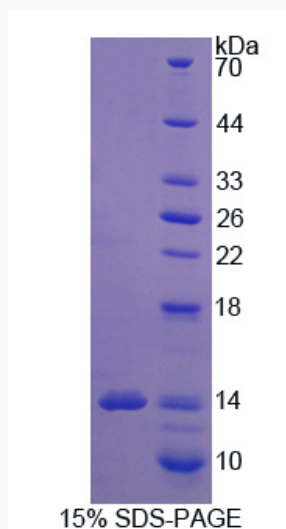
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mRNA Refseq NM_004170.5

Protein Refseq NP_004161.4

UniProt ID P43005

SDS-PAGE



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