

Recombinant Human SLC6A5 protein, GST-tagged

Cat. No. SLC6A5-118H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC6A5(294 a.a. - 393 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	294-393 a.a.
Description	This gene encodes a sodium- and chloride-dependent glycine neurotransmitter transporter. This integral membrane glycoprotein is responsible for the clearance of extracellular glycine during glycine-mediated neurotransmission. This protein is found in glycinergic axons and maintains a high presynaptic pool of neurotransmitter at glycinergic synapses. Mutations in this gene cause hyperekplexia; a heterogenous neurological disorder characterized by exaggerated startle responses and neonatal apnea. Two transcript variants encoding different isoforms have been found for this gene.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	36.74 kDa
AA Sequence	TLFYLFASFVSVLPWGSCNNPWNTPECKDKTKLLLDSCVISDHPKIQIKNSTFCMTAY PNVTMVNFTSQANKTFV SGSEEYFKYFVLKISAGIEYPGEIR

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Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
GENE INFORMATION	
Gene Name	SLC6A5 solute carrier family 6 (neurotransmitter transporter, glycine), member 5 [Homo sapiens]
Official Symbol	SLC6A5
Synonyms	SLC6A5; solute carrier family 6 (neurotransmitter transporter, glycine), member 5; NET1; sodium- and chloride-dependent glycine transporter 2; GLYT2; GLYT-2;
Gene ID	9152
mRNA Refseq	NM_004211
Protein Refseq	NP_004202
MIM	604159
UniProt ID	Q9Y345
Chromosome Location	11p15.1
Pathway	Na ⁺ /Cl ⁻ dependent neurotransmitter transporters, organism-specific biosystem; SLC-mediated transmembrane transport, organism-specific biosystem; Transmembrane

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transport of small molecules, organism-specific biosystem; Transport of glucose and other sugars, bile salts and organic acids, metal ions and amine compounds, organism-specific biosystem;

Function

glycine:sodium symporter activity; neurotransmitter:sodium symporter activity; symporter activity;

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