

## Recombinant Human SLC6A5 protein, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human SLC6A5(294 a.a. - 393 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	294-393 a.a.
<b>Description</b>	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.
<b>Form</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Molecular Mass</b>	36.74 kDa
<b>AA Sequence</b>	TLFYLFASFVSVLPWGSCNNPWNTPECKDKTKLLLDSCVISDHPKIQIKNSTFCMTAY PNVTMVNFTSQANKTFV SGSEEYFKYFVLKISAGIEYPGEIR

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<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	SLC6A5 solute carrier family 6 (neurotransmitter transporter, glycine), member 5 [ Homo sapiens ]
<b>Official Symbol</b>	SLC6A5
<b>Synonyms</b>	SLC6A5; solute carrier family 6 (neurotransmitter transporter, glycine), member 5; NET1; sodium- and chloride-dependent glycine transporter 2; GLYT2; GLYT-2;
<b>Gene ID</b>	9152
<b>mRNA Refseq</b>	NM_004211
<b>Protein Refseq</b>	NP_004202
<b>MIM</b>	604159
<b>UniProt ID</b>	Q9Y345
<b>Chromosome Location</b>	11p15.1
<b>Pathway</b>	Na <sup>+</sup> /Cl <sup>-</sup> 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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