

Recombinant Human STX1A protein, His & T7-tagged

Cat. No. STX1A-8249H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human STX1A aa. (Met1~Val255 (Accession # Q16623)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Val255
Description	This gene encodes a member of the syntaxin superfamily. Syntaxins are nervous system-specific proteins implicated in the docking of synaptic vesicles with the presynaptic plasma membrane. Syntaxins possess a single C-terminal transmembrane domain, a SNARE [Soluble NSF (N-ethylmaleimide-sensitive fusion protein)-Attachment protein REceptor] domain (known as H3), and an N-terminal regulatory domain (Habc). Syntaxins bind synaptotagmin in a calcium-dependent fashion and interact with voltage dependent calcium and potassium channels via the C-terminal H3 domain. This gene product is a key molecule in ion channel regulation and synaptic exocytosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.1kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>90%
Characteristic	The isoelectric point is 4.8.
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	STX1A syntaxin 1A [Homo sapiens (human)]
Official Symbol	STX1A
Synonyms	STX1A; syntaxin 1A; STX1; HPC-1; P35-1; SYN1A; neuron-specific antigen HPC-1; syntaxin 1A (brain)
Gene ID	6804

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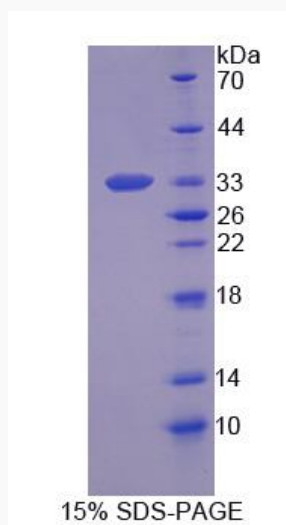
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mRNA Refseq NM_001165903.1

Protein Refseq NP_001159375.1

UniProt ID Q16623

SDS-PAGE



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