

Recombinant Human STX1A

Cat. No. STX1A-214H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant syntaxin 1A protein(1-226aa) contains N-terminal domain(Habc) and t_SNARE domain(H3 domain) and this protein was overexpressed in E.coli and purified by using the conventional column chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-226 a.a.
Description	<p>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.</p>
Form	In 20mM Tris (pH 7.5), 1mM DTT, 10% glycerol
Molecular Mass	26.1 kDa (226 aa), confirmed by MALDI-TOF.

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AA Sequence	MKDRTQELRT AKDSDDDDDDV AVTVDRDRFM DEFFEQVEEI RGFIDKIAEN VEEVKRKHS A ILASPNPDEK TKEELEELMS DIKKTANKVR SKLKSIEQSI EQEEGLNRSS ADLRIRKTQH STLSRKFVEV MSEYNATQSD YRERCKGRIQ RQLEITGR TT TSEELEDMLE SGNPAIFASG IIMDSSISKQ ALSEIETRHS EIIKLENSIR ELHDMFMDMA MLVESQ
Purity	> 95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	STX1A syntaxin 1A (brain) [Homo sapiens (human)]
Official Symbol	STX1A
Synonyms	STX1A; syntaxin 1A (brain); STX1; HPC-1; p35-1; STX1A; Syntaxin-1A; Neuron-specific antigen HPC-1
Gene ID	6804
mRNA Refseq	NM_004603
Protein Refseq	NP_004594
MIM	186590

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UniProt ID	Q16623
Chromosome Location	7q11.23
Pathway	Acetylcholine Neurotransmitter Release Cycle; Dopamine Neurotransmitter Release Cycle; GABA synthesis, release, reuptake and degradation
Function	ATP-dependent protein binding; SNAP receptor activity; calcium channel inhibitor activity

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