

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	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	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 AKDSDDDDDV AVTVDRDRFM DEFFEQVEEI RGFIDKIAEN VEEVKRKHS A ILASPNPDEK TKEELEELMS DIKKTANKVR SKLKSIEQSI EQEEGLNRSS ADLRIRKTQH STLSRK FVEV 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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