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**Product Data Sheet**


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Product Name: STX1A Human  
 Cat. No.: GP24738  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	STX1; HPC-1; p35-1; Syntaxin-1A; Neuron-specific antigen HPC-1; STX-1A; STX1A.		
Amino Acid Sequence	MKDRTQELRT AKDSDDDDDDV AVTVDRDRFM DEFFEQVEEI RGFIDKIAEN VEEVKRKHS A ILASPNPDEK TKEELEELMS DIKKTANKVR SKLKSIEQSI EQEEGLNRSS ADLRIRKTOH STLSRKFVEV MSEYNATQSD YRERCKGRIQ RQLEITGR TT TSEELEDMLE SGNPAIFASG IIMDSSISKQ ALSEIETRHS EIKLENSIR ELHDMFMDMA MLVESQ.		
Formulation	The protein solution contains 20mM Tris-HCl pH7.5, 10% glycerol, and 1mM DTT.		

**Introduction**

Syntaxin is membrane integrated Q-SNARE protein participating in exocytosis. Syntaxin is composed of an N-terminal regulatory domain (Habc), a SNARE domain (known as H3), and a single C-terminal transmembrane domain. The SNARE (H3) domain binds to both synaptobrevin and SNAP-25 forming the core SNARE complex. Synaptic vesicles store neurotransmitters that are released during calcium-regulated exocytosis. The specificity of neurotransmitter release requires the localization of both synaptic vesicles and calcium channels to the presynaptic active zone. Syntaxins function in this vesicle fusion process. Syntaxins also serve as a substrate for botulinum neurotoxin type C, a metalloprotease that blocks exocytosis and has high affinity for a molecular complex that includes the alpha-latrotoxin receptor which produces exocytosis.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Syntaxin-1A Human Recombinant fused to N-terminal His-Tag produced in E.Coli is a single, non-glycosylated polypeptide chain containing 226 amino acids (1-226) and having a molecular mass of 26.1 kDa. Recombinant Human STX1A contains N-terminal domain (Habc) and t\_SNARE domain (H3 domain).

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