
Product Data Sheet

Product Name: STX1A (1-265) Human

Cat. No.: GP24739

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Syntaxin 1A; Neuron-Specific Antigen HPC-1; Syntaxin 1A(Brain); STX1; Syntaxin-1A; HPC-1; P35-1; SYN1A.		
Amino Acid Sequence	MKDRTQELRT AKDSDDDDDDV AVTVDRDRFM DEFFEQVEEI RGFIDKIAENVEEVKRRKHS A ILASPNPDEK TKEELEELMS DIKKTANKVR SKLKSIEQSI EQEEGLNRSS ADLRIRKTQHSTLSRKFVEV MSEYNATQSD YRERCKGRIQ RQLEITGR TT TSEELEDMLE SGNPAIFASG IIMDSSISKQALSEIETRHS EIIKLENSIR ELHDMFMDMA MLVESQGEMI DRIEYNVEHA VDYVERAVSD TTKAVKYQSKARRKK.		
Formulation	STX1A protein solution (1mg/ml) containing phosphatebuffered saline (pH 7.4), 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 2-4weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

STX1A Human Recombinant produced in E. Coli is a single, non-glycosylated polypeptide chain containing 265 amino acids (1-265 a.a) and having a molecular mass of 30.7kDa.

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