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STX1A (1-265) Human

Syntaxin-1A (1-265 a.a) Human Recombinant
RCP2283

Product Overview

Name	STX1A (1-265) Human
Description	
Syntaxin-1A (1-265 a.a) Human Recombinant	
Accession (Primary)	Q16623
Synonyms	
Syntaxin 1A, Neuron-Specific Antigen HPC-1, Syntaxin 1A (Brain), STX1, Syntaxin-1A, HPC-1, P35-1, SYN1A.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
STX1A protein solution (1mg/ml) containing phosphate buffered saline (pH 7.4), 10% glycerol and 1mM DTT.	
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% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MKDRTQELRT AKDSDDDDDV AVTVDRDRFM DEFFEQVEEI RGFIDKIAEN VEEVKRKHSA ILASPNPDEK	

TKEELEELMS DIKKTANKVR SKLKSIEQSI EQEEGLNRSS ADLRIRKTQH STLSRKFVEV MSEYNATQSD YRERCKGRIQ RQLEITGRTT TSEELEDMLE SGNPAIFASG IIMDSSISKQ ALSEIETRHS EIIKLENSIR ELHDMFMDMA MLVESQGEMI DRIEYNVEHA VDYVERAVSD TKKAVKYQSK ARRKK.

Precautions

STX1A (1-265) Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q16623)