

Product datasheet for TP328784M

Syntaxin 1a (STX1A) (NM_001165903) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens syntaxin 1A (brain) (STX1A), transcript variant 2, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC228784 representing NM_001165903 Red=Cloning site Green=Tags(s)

MKDRTQELRTAKDSDDDDVAVTVDRDRFMDEFFEQVEEIRGFIDKIAENVEEVKCRKHSAILASPNPDEK
TKEELEELMSDIKKTANKVRSKLSIEQSIEQEEGLNRSSADLRIRKQTHSTLSRKFVEVMSEYNATQSD
YRERCKGRIQRQLEITGRITTTSEELEDMLESGNPAIFASGIIMDSSISKQALSEIETRHSEIIKLENSIR
ELHDMFMDMAMLVESQTMWRGPCLTPRRPSSTRARRAGRKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	28.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	NULL or Add: Recombinant proteins was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_001159375</u>
Locus ID:	6804



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UniProt ID: [Q16623](#)

Cytogenetics: 7q11.23

RefSeq ORF: 753

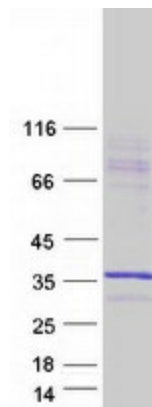
Synonyms: HPC-1; P35-1; STX1; SYN1A

Summary: 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.[provided by RefSeq, Sep 2009]

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

Product images:



Coomassie blue staining of purified STX1A protein (Cat# [TP328784]). The protein was produced from HEK293T cells transfected with STX1A cDNA clone (Cat# [RC228784]) using MegaTran 2.0 (Cat# [TT210002]).