

Recombinant Mouse Stx1a Protein, Myc/DDK-tagged

Cat. No. Stx1a-6205M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length syntaxin 1A (brain) (Stx1a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Plays an essential role in hormone and neurotransmitter calcium-dependent exocytosis and endocytosis. Part of the SNARE (Soluble NSF Attachment Receptor) complex composed of SNAP25, STX1A and VAMP2 which mediates the fusion of synaptic vesicles with the presynaptic plasma membrane. STX1A and SNAP25 are localized on the plasma membrane while VAMP2 resides in synaptic vesicles. The pairing of the three SNAREs from the N-terminal SNARE motifs to the C-terminal anchors leads to the formation of the SNARE complex, which brings membranes into close proximity and results in final fusion. Participates in the calcium-dependent regulation of acrosomal exocytosis in sperm. Plays also an important role in the exocytosis of hormones such as insulin or glucagon-like peptide 1 (GLP-1).
Molecular Mass	33.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Stx1a syntaxin 1A (brain) [Mus musculus (house mouse)]
Official Symbol	Stx1a
Synonyms	STX1A; syntaxin 1A (brain); syntaxin-1A; syntaxin 1 a; neuron-specific antigen HPC-1; HPC-1
Gene ID	20907
mRNA Refseq	NM_016801
Protein Refseq	NP_058081
UniProt ID	O35526