Recombinant Mouse Syt1 Protein, Myc/DDK-tagged

Cat. No. Syt1-6256M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length synaptotagmin I (Syt1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Calcium sensor that participates in triggering neurotransmitter release at the synapse. May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca2+-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca2+-independent manner; these are neurexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes.
Molecular Mass	47.4 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.
Storage	Store at -80 centigrade after receiving vials.

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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	Syt1 synaptotagmin I [Mus musculus (house mouse)]
Official Symbol	Syt1
Synonyms	SYT1; synaptotagmin I; synaptotagmin-1; p65; synaptotagmin 1; SytI; AW124717; G630098F17Rik
Gene ID	20979
mRNA Refseq	NM_009306
Protein Refseq	NP_033332
UniProt ID	P46096

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