

Recombinant Mouse Lin7b Protein, Myc/DDK-tagged

Cat. No. Lin7b-3787M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length lin-7 homolog B (<i>C. elegans</i>) (Lin7b), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Plays a role in establishing and maintaining the asymmetric distribution of channels and receptors at the plasma membrane of polarized cells. Forms membrane-associated multiprotein complexes that may regulate delivery and recycling of proteins to the correct membrane domains. The tripartite complex composed of LIN7 (LIN7A, LIN7B or LIN7C), CASK and APBA1 associates with the motor protein KIF17 to transport vesicles containing N-methyl-D-aspartate (NMDA) receptor subunit NR2B along microtubules. This complex may have the potential to couple synaptic vesicle exocytosis to cell adhesion in brain. Ensures the proper localization of GRIN2B (subunit 2B of the NMDA receptor) to neuronal postsynaptic density and may function in localizing synaptic vesicles at synapses where it is recruited by beta-catenin and cadherin. Required to localize Kir2 channels, GABA transporter (SLC6A12) and EGFR/ERBB1, ERBB2, ERBB3 and ERBB4 to the basolateral membrane of epithelial cells. May increase the amplitude of ASIC3 acid-evoked currents by stabilizing the channel at the cell surface.
Molecular Mass	22.9 kDa

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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.
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	Lin7b lin-7 homolog B (C. elegans) [Mus musculus (house mouse)]
Official Symbol	Lin7b
Synonyms	LIN7B; lin-7 homolog B (C. elegans); protein lin-7 homolog B; veli-2; lin 7 homolog b; vertebrate lin-7 homolog 2; mammalian lin-seven protein 2; vertebrate homolog of C. elegans Lin-7 type 2; Veli2; LIN-7B; MALS-2
Gene ID	22342
mRNA Refseq	NM_011698
Protein Refseq	NP_035828
UniProt ID	O88951

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