Recombinant Mouse Dlg4 Protein, Myc/DDK-tagged

Cat. No. Dlg4-2576M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length discs large MAGUK scaffold protein 4 (Dlg4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Postsynaptic scaffolding protein that plays a critical role in synaptogenesis and synaptic plasticity by providing a platform for the postsynaptic clustering of crucial synaptic proteins. Interacts with the cytoplasmic tail of NMDA receptor subunits and shaker-type potassium channels. Required for synaptic plasticity associated with NMDA receptor signaling. Overexpression or depletion of DLG4 changes the ratio of excitatory to inhibitory synapses in hippocampal neurons. May reduce the amplitude of ASIC3 acid-evoked currents by retaining the channel intracellularly. May regulate the intracellular trafficking of ADR1B. Also regulates AMPA-type glutamate receptor (AMPAR) immobilization at postsynaptic density keeping the channels in an activated state in the presence of glutamate and preventing synaptic depression (Probable).
Molecular Mass	80.6 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	Dlg4 discs large MAGUK scaffold protein 4 [Mus musculus (house mouse)]
Official Symbol	Dlg4
Synonyms	DLG4; discs, large homolog 4 (Drosophila); disks large homolog 4; SAP-90; PSD-95 beta; PSD-95 alpha 2b; discs large homolog 4; synapse-associated protein 90; postsynaptic density protein 95; Dlgh4; PSD95; SAP90; PSD-95; SAP90A
Gene ID	13385
mRNA Refseq	NM_001109752
Protein Refseq	NP_001103222
UniProt ID	Q62108

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