Recombinant Mouse Sh3rf1 Protein, Myc/DDK-tagged

Cat. No. Sh3rf1-5851M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length SH3 domain containing ring finger 1 (cDNA clone MGC:63290 IMAGE:6405370), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Has E3 ubiquitin-protein ligase activity. In the absence of an external substrate, it can catalyze self-ubiquitination. Stimulates ubiquitination of potassium channel KCNJ1, enhancing its dynamin-dependent and clathrin-independent endocytosis. Acts as a scaffold protein that coordinates with MAPK8IP1/JIP1 in organizing different components of the JNK pathway, including RAC1 or RAC2, MAP3K11/MLK3 or MAP3K7/TAK1, MAP2K7/MKK7, MAPK8/JNK1 and/or MAPK9/JNK2 into a functional multiprotein complex to ensure the effective activation of the JNK signaling pathway. Regulates the differentiation of CD4+ and CD8+ T-cells and promotes T-helper 1 (Th1) cell differentiation. Regulates the activation of MAPK8/JNK1 and MAPK9/JNK2 in CD4+ T-cells and the activation of MAPK8/JNK1 in CD8+ T-cells. Plays a crucial role in the migration of neocortical neurons in the developing brain. Controls proper cortical neuronal migration and the formation of proximal cytoplasmic dilation in the leading process (PCDLP) in migratory neocortical neurons by regulating the proper localization of activated RAC1 and F-actin assembly.
Molecular Mass	89.8 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	Sh3rf1 SH3 domain containing ring finger 1 [Mus musculus (house mouse)]
Official Symbol	Sh3rf1
Synonyms	Sh3rf1; SH3 domain containing ring finger 1; P; Posh; Sh3md; R75531; Sh3md2; 2200003J05Rik; E3 ubiquitin-protein ligase SH3RF1; RING-type E3 ubiquitin transferase SH3RF1; SH3 domain-containing RING finger protein 1; SH3 multiple domains 2; SH3 multiple domains protein 2; plenty of SH3 domains; plenty of SH3s; putative E3 ubiquitin-protein ligase SH3RF1; EC 2.3.2.27
Gene ID	59009
mRNA Refseq	NM_021506
Protein Refseq	NP_067481
UniProt ID	Q69ZI1

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