Recombinant Mouse Chp1 Protein, Myc/DDK-tagged

Cat. No. Chp1-2155M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length calcineurin-like EF hand protein 1 (Chp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Calcium-binding protein involved in different processes such as regulation of vesicular trafficking, plasma membrane Na+/H+ exchanger and gene transcription. Involved in the constitutive exocytic membrane traffic. Mediates the association between microtubules and membrane-bound organelles of the endoplasmic reticulum and Golgi apparatus and is also required for the targeting and fusion of transcytotic vesicles (TCV) with the plasma membrane. Functions as an integral cofactor in cell pH regulation by controlling plasma membrane-type Na+/H+ exchange activity. Affects the pH sensitivity of SLC9A1/NHE1 by increasing its sensitivity at acidic pH. Required for the stabilization and localization of SLC9A1/NHE1 at the plasma membranes. Inhibits serum- and GTPase-stimulated Na+/H+ exchange. Plays a role as an inhibitor of ribosomal RNA transcription by repressing the nucleolar UBF1 transcriptional activity. May sequester UBF1 in the nucleoplasm and limit its translocation to the nucleolus. Associates to the ribosomal gene promoter. Acts as a negative regulator of the calcineurin/NFAT signaling pathway. Inhibits NFAT nuclear translocation and transcriptional activity by suppressing the calcium-dependent calcineurin phosphatase activity. Also negatively regulates the kinase activity of the apoptosis-induced kinase STK17B. Inhibits both STK17B auto- and substrate-

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	phosphorylations in a calcium-dependent manner.
Molecular Mass	22.4 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.
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	Chp1 calcineurin-like EF hand protein 1 [Mus musculus (house mouse)]
Official Symbol	Chp1
Synonyms	Chp1; calcineurin-like EF hand protein 1; v; Chp; p24; vac; Cahp; Sid4; Sid470p; AA960066; AI046351; 1500003O03Rik; calcineurin B homologous protein 1; EF-hand calcium-binding domain-containing protein p22; calcineurin B-like protein; calcineurin homologous protein; calcium binding protein P22; calcium-binding protein CHP; calcium-binding protein p22; sid 470
Gene ID	56398
mRNA Refseq	NM_019769

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Protein Refseq	NP_062743
UniProt ID	P61022

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