

Recombinant Mouse Chmp3 Protein, Myc/DDK-tagged

Cat. No. Chmp3-2148M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length charged multivesicular body protein 3 (Chmp3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Probable core component of the endosomal sorting required for transport complex III (ESCRT-III) which is involved in multivesicular bodies (MVBs) formation and sorting of endosomal cargo proteins into MVBs. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. The MVB pathway appears to require the sequential function of ESCRT-O, -I, -II and -III complexes. ESCRT-III proteins mostly dissociate from the invaginating membrane before the ILV is released. The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis. ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4. Selectively binds to phosphatidylinositol 3,5-bisphosphate PtdIns(3,5)P₂ and PtdIns(3,4)P₂ in preference to other phosphoinositides tested. Involved in late stages of cytokinesis. Plays a role in endosomal sorting/trafficking of EGF receptor.
Molecular Mass	25.2 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	Chmp3 charged multivesicular body protein 3 [Mus musculus (house mouse)]
Official Symbol	Chmp3
Synonyms	Chmp3; charged multivesicular body protein 3; Vp; 25.1; NEDF; CGI-4; Vps24; CGI-49; D6Ert286; D6Ert286e; 4921505F14Rik; 9130011K15Rik; charged multivesicular body protein 3; chromatin-modifying protein 3; neuroendocrine differentiation factor; vacuolar protein sorting-associated protein 24
Gene ID	66700
mRNA Refseq	NM_025783
Protein Refseq	NP_080059
UniProt ID	Q9CQ10

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