

Recombinant Human Charged Multivesicular Body Protein 4A, His-tagged

Cat. No. CHMP4A-1376H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanCHMP4A protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	CHMP4A(Chromatin-modifying protein 4a) belongs to the SNF7 family and functions aschromatin-modifying proteins. It probable core component of the endosomal sorting required for transport complex III (ESCRT-III) which is involved inmultivesicular bodies (MVBs) formation and sorting of endosomal cargoproteins into MVBs. Also during HIV-1 infection, the virus uses the ESCRT-IIIcomplex to mediate budding and exocytosis of viral proteins via theassociation of CHMP4 and a protein recruited by HIV-1 p6, which is present inviral Gag assembly and budding. CHMP4A expressed at higher level in heart,kidney, liver and skeletal muscle.
Form	Liquid. In 20mMTris-HCl buffer (pH 8.0) containing 2mM DTT, 50% glycerol, 200mM NaCl, 0.1mMPMSF, 1mM EDTA.
Molecular Weight	32.0 kDa (285aa),confirmed by MALDI-TOF.
Purity	> 90% by SDS-PAGE
Concentration	0.25 mg/ml(determined by Bradford assay)

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Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MSRRRPEDGL GKAGPCVMRH HPPRSKAEVW RTLREGGGGRG ELAMSGLGRLFGKGKKEKGP TPEEAIQKLK ETEKILIKKQ EFLEQKIQQE LQTAKKYGTK NKRAALQALR RKKRFEQQLAQTDGTLSTLE FQREAIENAT TNAEVLRTME LAAQSMKKAY QDMDIDKVDE LMTDITEQQE VAQQISDAISRPMGFGDDVD EDELLEEELE LEQEELAQEL LNVGDKEEEP SVKLPSVPST HLPAGPAPKV DEDEEALKQLAEWVS
Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	ESCRT-III complex;Endocytosis; Endosomal Sorting Complex Required For Transport (ESCRT);Membrane Trafficking
GENE INFORMATION	
Gene Name	CHMP4A charged multivesicularbody protein 4A [Homo sapiens]
Official Symbol	CHMP4A
Synonyms	CHMP4A; charged multivesicular body protein 4A; SNF7;CHMP4; SHAX2; CHMP4B; SNF7-1; VPS32A; HSPC134; VPS32-1; FLJ61658; C14orf123;MGC142093; MGC142095; charged multivesicular body protein 4a;OTTHUMP00000164694; OTTHUMP00000235236; chromatin modifying protein 4A; SNF7homolog associated with Alix-2; Snf7 homologue associated with Alix 2;vacuolar protein sorting-associated protein 32-1
Gene ID	29082
mRNA Refseq	NM_014169
Protein Refseq	NP_054888

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MIM	610051
UniProt ID	Q9BY43
Chromosome Location	14q11.2
Function	lipid binding

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