

# Recombinant human CHMP4A protein

Catalog Number: ATGP1376

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-265aa

### UniProt No.

Q9BY43

### NCBI Accession No.

NP\_054888

### Alternative Names

Charged multivesicular body protein 4A, Chromatin-modifying protein 4a, CHMP4a, SNF7 homolog associated with Alix-2, SNF7-1, hSnf-1, Vacuolar protein sorting-associated protein 32-1, Vps32-1, hVps32-1, HSPC134, VPS32A

## PRODUCT SPECIFICATION

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### Molecular Weight

31.9kDa (285aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 50% glycerol, 200mM NaCl, 0.1mM PMSF, 1mM EDTA

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CHMP4A (Chromatin-modifying protein 4a) belongs to the SNF7 family and functions as chromatin-modifying proteins. It 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.

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Also during HIV-1 infection, the virus uses the ESCRT-III complex to mediate budding and exocytosis of viral proteins via the association of CHMP4 and a protein recruited by HIV-1 p6, which is present in viral Gag assembly and budding. CHMP4A expressed at higher level in heart, kidney, liver and skeletal muscle. Recombinant human CHMP4A protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

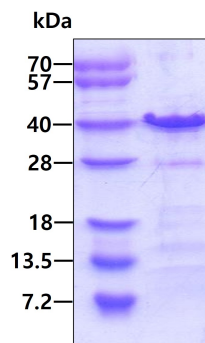
<MGSSHHHHHH SSGLVPRGSH> MSRRRPEDGL GKAGPCVMRH HPPRSKAEVW RTLRGGGGRG ELAMSGLGRL  
FGKGGKKEKGP TPEEAIQKLG ETEKILIKKQ EFLEQKIQQE LQTAKKYGTK NKRAALQALR RKKRFEQQLA QTDGTLSTLE  
FQREAIENAT TNAEVLRTME LAAQSMKKAY QDMDIDKVDE LMTDITEQQE VAQQISDAIS RPMGFGDDVD EDELLEEELE  
LEQEELAQEL LNVGDKEEEP SVKLPSVPST HLPAGPAPKV DEDEEALKQL AEWVS

## General References

Katoh K., et al. (2004) Arch. Biochem. Biophys. 421:159-165  
Strack B., et al (2003) Cell 114:689-699

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.