

# Recombinant human VPS20/CHMP6 protein

Catalog Number: ATGP1511

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-201aa

### UniProt No.

Q96FZ7

### NCBI Accession No.

NP\_078867

### Alternative Names

Charged multivesicular body protein 6, VPS20, Chromatin-modifying protein 6, Vacuolar protein sorting-associated protein 20, hVps20

## PRODUCT SPECIFICATION

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### Molecular Weight

26 kDa (225aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM NaCl

### Purity

> 95% 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

CHMP6, as known as charged multivesicular body protein 6, belongs to the SNF7 family. This Protein is 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

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stimulated growth factor receptors, lysosomal enzymes and lipids. Recombinant human CHMP6 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 MGSH>MGNLFG RKKQSRVTEQ DKAILQLKQQ RDKLRQYQKR IAQQLERERA  
LARQLLRDGR KERAKLLKK KRYQEQLDR TENQISSLEA MVQSIEFTQI EMKVMEGLQF GNECLNKM HQ VMSIEEVERI  
LDETQEA VEY QRQIDELLAG SFTQEDED AI LEELSAITQE QIELPEVPSE PLPEKIPENV PVKARPRQAE LVAAS

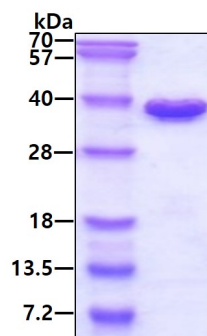
## General References

Yorikawa C., et al. (2005) Biochem. J. 387:17-26

Howard TL, et al. (2001) J Cell Sci 114 (Pt 13): 2395-404.

## DATA

### SDS-PAGE



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