

Recombinant human CHMP1B protein

Catalog Number: ATGP1571

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-199aa

UniProt No.

Q7LBR1

NCBI Accession No.

NP_065145.2

Alternative Names

Charged multivesicular body protein 1B, CHMP1.5, Chromatin-modifying protein 1b, CHMP1b, Vacuolar protein sorting-associated protein 46-2, Vps46-2, hVps46-2, C18orf2, Vps46B

PRODUCT SPECIFICATION

Molecular Weight

24.7 kDa (223aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

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

Description

CHMP1B, also known as charged multivesicular body protein 1b, is probable peripherally associated 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,

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lysosomal enzymes and lipids. Recombinant human CHMP1B protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MSNMEK HLFNLKFAAK ELSRSAKKCD KEEKAEKAKI KKAIQKGNME
VARIHAENAI RQKNQAVNFL RMSARVDAVA ARVQTAVTMG KVTKSMAGVV KSMDATLKTM NLEKISALMD KFEHQFETLD
VQTQQMEDTM SSTTTLTTPQ NQVDMLLQEM ADEAGLDLNM ELPQGQTGSV GTSVASAEQD ELSQRLARLR DQV

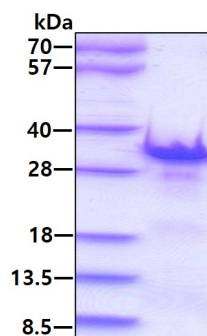
General References

Martin-Serrano J., et al. (2003) Proc. Natl. Acad. Sci. u.S.A. 100:12414-12419

Bajorek M., et al. (2009) Mol. Biol. Cell. 20:1360-1373

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.