Recombinant human CHMP1A protein

Catalog Number: ATGP1841

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-196aa

UniProt No.
Q9HD42

NCBI Accession No.
NP_002759.2

Alternative Names
Charged multivesicular body protein 1a, CHMP1, PCOLN3, PRSM1, VPS46-1, VPS46A, Chromatin-modifying protein 1a, CHMP1a, Vacuolar protein sorting-associated protein 46-1, hVps46-1, Procollagen type III N-endopeptidase

PRODUCT SPECIFICATION

Molecular Weight
24.1 kDa (219aa) 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 0.1M NaCl, 20% glycerol,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
Charged multivesicular body protein 1a, also known as CHMP1A, belongs to the vacuolar sorting protein family and functions as chromatin-modifying protein. These complexes are crucial for sorting endosomal articles into multivesicular bodies (MVBs), as well as required for the formation of these bodies. The MVBs pathway mediates delivery of transmembrane proteins into the lumen of the lysosome for degradation. CHMP1 interacts with VPS4B

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and localizes to early endosomes. Two isoforms, encoded by distinct genes, exists for CHMP1. They are designated CHMP1A and CHMP1B. Recombinant human CHMP1A protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

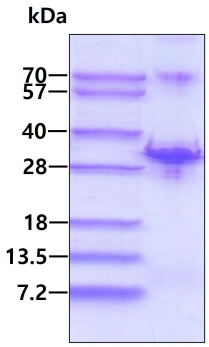
<MGSSHHHHHH SSGLVPRGSH MGS>MDDTLFQ LKFTAKQLEK LAKKAEKDSK AEQAKVKKAL LQKNVECARV YAENAIRKKN EGVNWLRMAS RVDAVASKVQ TAVTMKGVTK NMAQVTKALD KALSTMDLQK VSSVMDRFEQ QVQNLDVHTS VMEDSMSSAT TLTTPQEQVD SLIMQIAEEN GLEVLDQLSQ LPEGASAVGE SSVRSQEDQL SRRLAALRN

General References

Stauffer D R., et al. (2001) J Cell Sci. 114:2383-2393
Howard T L., et al. (2001) J Cell Sci. 114: 2395-2404.

DATA

SDS-PAGE



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