Recombinant human CHMP2A protein

Catalog Number: ATGP0370

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-222aa

UniProt No.
O43633

NCBI Accession No.
NP_055268.1

Alternative Names
Charged multivesicular body protein 2A, Chromatin-modifying protein 2a, CHMP2a, Putative breast adenocarcinoma marker BC-2, Vacuolar protein sorting-associated protein 2-1, Vps2-1, hVps2-1, BC-2, CHMP2, VPS2A, VPS2

PRODUCT SPECIFICATION

Molecular Weight
27.2 kDa (242aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 1mM DTT, 30% glycerol

Purity
> 90% 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
CHMP2A, also known as chromatin modifying protein 2A, belongs to the SNF7 family and it is component of the ESCRT III complex, which is required for multivesicular bodies (MVBs) formation and sorting of endosomal cargo proteins into MVBs. The MVB pathway mediates delivery of transmembrane proteins into the lumen of the lysosome for degradation. Recombinant CHMP2A protein, fused to His-tag at N-terminus, was expressed in E. coli

and purified by using conventional chromatography techniques.

Amino acid Sequence

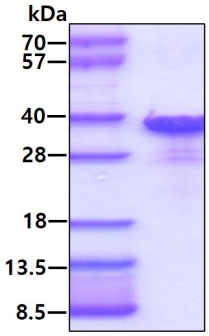
<MGSSHHHHHH SSGLVPRGSH> MDLLFGRRKT PEELLRQNQR ALNRAMRELD RERQKLETQE KKIIADIKKM AKQGQMDAVR IMAKDLVRTR RYVRKFVLMR ANIQAVSLKI QTLKSNNSMA QAMKGVTKAM GTMNRQLKLP QIQKIMMEFE RQAEIMDMKE EMMNDAIDDA MGDEEDEEES DAVVSQVLDE LGLSLTDELS NLPSTGGSLS VAAGGKKAEA AASALADADA DLEERLKNLR RD

General References

Lata S., et al. (2008) Science. 321(5894):1354-7.
Agromayor M., et al. (2006) J Biol Chem. 281(32):23083-91.

DATA

SDS-PAGE



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