Recombinant Human CHMP1A, His-tagged

Cat. No. CHMP1A-7059H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CHMP1A protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-196aa
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 and localizes to early endosomes. Two isoforms, encoded by distinct genes, exists for CHMP1. They are designated CHMP1A and CHMP1B.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl,20% glycerol,1mM DTT
Molecular Mass	24.1 kDa (219aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDDTLFQ LKFTAKQLEK LAKKAEKDSK AEQAKVKKAL LQKNVECARV YAENAIRKKN EGVNWLRMASRVDAVASKVQ

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	TAVTMKGVTK NMAQVTKALD KALSTMDLQK VSSVMDRFEQ QVQNLDVHTS VMEDSMSSAT TLTTPQEQVD SLIMQIAEEN GLEVLDQLSQ LPEGASAVGE SSVRSQEDQL SRRLAALRN
Purity	>85% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	CHMP1A charged multivesicular body protein 1A [Homo sapiens]
Official Symbol	CHMP1A
Synonyms	CHMP1A; charged multivesicular body protein 1A; chromatin modifying protein 1A , PCOLN3, procollagen (type III) N endopeptidase , PRSM1; charged multivesicular body protein 1a; CHMP1; KIAA0047; Vps46A; protease, metallo, 1, 33kD; chromatin modifying protein 1A; procollagen (type III) N-endopeptidase; vacuolar protein sorting-associated protein 46-1; charged multivesicular body protein 1/chromatin modifying protein 1; PRSM1; PCOLN3; VPS46A; VPS46-1;
Gene ID	5119
mRNA Refseq	NM_001083314
Protein Refseq	NP_001076783

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MIM	164010
UniProt ID	Q9HD42
Chromosome Location	16q24.3
Function	metallopeptidase activity; protein binding; protein domain specific binding; zinc ion binding;

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