

Recombinant Human Charged Multivesicular Body Protein 5, His-tagged

Cat. No. CHMP5-7172H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CHMP5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 27 kDa.
Species	Human
Source	E.coli
ProteinLength	1-219aa
Description	CHMP5 belongs to the chromatin-modifying protein/charged multivesicular body protein (CHMP) family. These proteins are components of ESCRT-III (endosomal sorting complex required for transport III), a complex involved in degradation of surface receptor proteins and formation of endocytic multivesicular bodies (MVBs). Some CHMPs have both nuclear and cytoplasmic/vesicular distributions, and one such CHMP, CHMP1A (MIM 164010), is required for both MVB formation and regulation of cell cycle progression.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol.
Molecular Mass	27 kDa (243aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMNRLFG KAKPKAPPPS LTDCIGTVDS RAESIDKKIS RLDAELVKYK DQIKKMREGP AKNMVKQKAL RVLKQKRMYE

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QQRDNLAQQS FNMEQANYTI QSLKDTKTTV DAMKLGVKEM KKAYKQVKID
QIEDLQDQLE DMMEDANEIQ EALSRSYGTP ELDEDDLEAE LDALGDELLA
DEDSSYLDEA ASAPAIPEGV PTDTKNKDGV LVDEFGLPQI PAS

Purity >80% 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 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CHMP5 charged multivesicular body protein 5 [Homo sapiens]

Official Symbol CHMP5

Synonyms CHMP5; charged multivesicular body protein 5; C9orf83, chromatin modifying protein 5 , chromosome 9 open reading frame 83 , SNF7DC2; CGI 34; HSPC177; Vps60; hVps60; SNF7 domain containing 2; chromatin modifying protein 5; chromatin-modifying protein 5; SNF7 domain-containing protein 2; apoptosis-related protein PNAS-2; vacuolar protein sorting-associated protein 60; CGI-34; PNAS-2; C9orf83; SNF7DC2;

Gene ID 51510

mRNA Refseq NM_001195536

Protein Refseq NP_001182465

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MIM	610900
UniProt ID	Q9NZZ3
Chromosome Location	9p13.3
Pathway	ESCRT-III complex, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Endosomal Sorting Complex Required For Transport (ESCRT), organism-specific biosystem; Membrane Trafficking, organism-specific biosystem;
Function	protein binding;

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