Charged Multivesicular Body Protein 4c (CHMP4C) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Charged multivesicular body protein 4c (Chmp4c), Recombinant Protein
Full Product Name	Recombinant Mouse Charged multivesicular body protein 4c (Chmp4c)
Product Gene Name	Chmp4c recombinant protein
Product Synonym Gene Name	Chmp4c
Sequence	MSKLGKFFKG TRSSRARAAP SAQEALARLR ETEEMLAKKQ EYLENRIQRE LALAKKHGSQ NKRAALQALK RKKRFEKQLT QVDGTLSTIE FQREALENSH TNTEVLRNMG FAAKAMKAVH DNMDLNKIDD LMQDITEQQD IAQEISEAFS QRVQFADGFD EAELLAELEE LEQEELNKKM TSLELPNVPS SSLPAQPSRK ASMPSSVHRS RAASSRRAEE DDDFKQLAAW AT
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	26,280 Da
Sequence Positions	1-232, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9D7F7
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Chmp4c recombinant protein	MBS1478691 is a recombinant protein targeting Chmp4c. Also known as Recombinant Mouse Charged multivesicular body protein 4c (Chmp4c). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Chmp4c recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Chmp4c. It may not necessarily be applicable to this product.

NCBI GI #	13384940
NCBI GeneID	66371
NCBI Accession #	NP_079795.1
UniProt Primary Accession #	Q9D7F7
UniProt Secondary Accession #	Q149R2; Q3TVD7; Q9CWH8

UniProt Related Accession #	Q9D7F7
GenBank Nucleotide #	NM_025519.2
NCBI Official Full Name	charged multivesicular body protein 4c
NCBI Official Synonym Full Names	charged multivesicular body protein 4C
NCBI Official Symbol	Chmp4c
NCBI Official Synonym Symbols	Shax3; Snf7-3; 2010012P02Rik; 2210015K02Rik; 2310010I16Rik
UniProt Protein Name	Charged multivesicular body protein 4c
UniProt Synonym Protein Names	Chromatin-modifying protein 4c; CHMP4c
Protein Family	Charged multivesicular body protein
UniProt Gene Name	Chmp4c
UniProt Synonym Gene Names	CHMP4c
NCBI Protein Information	charged multivesicular body protein 4c
UniProt Comments for Chmp4c	Probable core 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, lysosomal enzymes and lipids. The MVB pathway appears to require the sequential function of ESCRT-O, -I,-II and -III complexes. ESCRT-III proteins mostly dissociate from the invaginating membrane before the ILV is released. The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis. Key component of the cytokinesis checkpoint, a process required to delay abscission to prevent both premature resolution of intercellular chromosome bridges and accumulation of DNA damage: upon phosphorylation by AURKB, together with ZFYVE19/ANCHR, retains abscission-competent VPS4 (VPS4A and/or VPS4B) at the midbody ring until abscission checkpoint signaling is terminated at late cytokinesis. Deactivation of AURKB results in dephosphorylation of CHMP4C followed by its dissociation from ANCHR and VPS4 and subsequent abscission. ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4. CHMP4A/B/C are required for the exosomal release of SDCBP, CD63 and syndecan ().
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