Charged Multivesicular Body Protein 2a (CHMP2A) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Charged multivesicular body protein 2a (Chmp2a), Recombinant Protein
Full Product Name	Recombinant Mouse Charged multivesicular body protein 2a (Chmp2a)
Product Gene Name	Chmp2a recombinant protein
Product Synonym Gene Name	Chmp2a
Sequence	MDLLFGRRKT PEELLRQNQR ALNRAMRELD RERQKLETQE KKIIADIKKM AKQGQMDAVR IMAKDLVRTR RYVRKFVLMR ANIQAVSLKI QTLKSNNSMA QAMKGVTKAM GTMNRQLKLP QIQKIMMEFE RQAEIMDMKE EMMNDAIDDA MGDEEDEEES DAVVSQVLDE LGLSLTDELS NLPSTGGSLS VAAGGKKAEA TASALADADA DLEERLKNLR RD
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	25,134 Da
Sequence Positions	1-222, 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 Q9DB34
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Chmp2a recombinant protein	MBS1379676 is a recombinant protein targeting Chmp2a. Also known as Recombinant Mouse Charged multivesicular body protein 2a (Chmp2a). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Chmp2a 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 Chmp2a. It may not necessarily be applicable to this product.

NCBI GI #	21312151
NCBI GeneID	68953
NCBI Accession #	NP_081161.1
UniProt Primary Accession #	Q9DB34
UniProt Related Accession #	Q9DB34

GenBank Nucleotide #	NM_026885.3
NCBI Official Full Name	charged multivesicular body protein 2a isoform a
NCBI Official Synonym Full Names	charged multivesicular body protein 2A
NCBI Official Symbol	Chmp2a
NCBI Official Synonym Symbols	mVps2; 1500016L11Rik
UniProt Protein Name	Charged multivesicular body protein 2a
UniProt Synonym Protein Names	Chromatin-modifying protein 2a; CHMP2a; Vacuolar protein sorting-associated protein 2; mVps2
Protein Family	Charged multivesicular body protein
UniProt Gene Name	Chmp2a
UniProt Synonym Gene Names	CHMP2a; mVps2
NCBI Protein Information	charged multivesicular body protein 2a
UniProt Comments for Chmp2a	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. Together with SPAST, the ESCRT-III complex promotes nuclear envelope sealing and mitotic spindle disassembly during late anaphase. ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4.
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