Mitochondrial Intermembrane Space Import and Assembly Protein 40 (CHCHD4) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Mitochondrial intermembrane space import and assembly protein 40 (Chchd4), Recombinant Protein
Full Product Name	Recombinant Rat Mitochondrial intermembrane space import and assembly protein 40 (Chchd4)
Product Gene Name	Chchd4 recombinant protein
Product Synonym Gene Name	Chchd4
Sequence	MSYCRQEGKD RIIFVTKEDH ETPSSAELVA DDPNDPYEEH GLILPNGDIN WNCPCLGGMA SGPCGEQFKS AFSCFHYSTE DIKGSDCIDQ FRAMQECMQK YPDLYPQDEE EEEEAKPVEP VEETADTKAS AAKEQGASS
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	15,467 Da
Sequence Positions	1-139, 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 Q5BJN5
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Chchd4 recombinant protein	MBS1346319 is a recombinant protein targeting Chchd4. Also known as Recombinant Rat Mitochondrial intermembrane space import and assembly protein 40 (Chchd4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Chchd4 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 Chchd4. It may not necessarily be applicable to this product.

NCBI GI #	61740629
NCBI GeneID	312559
NCBI Accession #	NP_001013449.1
UniProt Primary Accession #	Q5BJN5
UniProt Related Accession #	Q5BJN5

GenBank Nucleotide #	NM_001013431.1
NCBI Official Full Name	mitochondrial intermembrane space import and assembly protein 40
NCBI Official Synonym Full Names	coiled-coil-helix-coiled-coil-helix domain containing 4
NCBI Official Symbol	Chchd4
UniProt Protein Name	Mitochondrial intermembrane space import and assembly protein 40
UniProt Synonym Protein Names	Coiled-coil-helix-coiled-coil-helix domain-containing protein 4
Protein Family	Mitochondrial intermembrane space import and assembly protein
UniProt Gene Name	Chchd4
UniProt Synonym Gene Names	Mia40
NCBI Protein Information	mitochondrial intermembrane space import and assembly protein 40
UniProt Comments for Chchd4	Functions as chaperone and catalyzes the formation of disulfide bonds in substrate proteins, such as COX17 or MICU1. Required for the import and folding of small cysteine-containing proteins (small Tim) in the mitochondrial intermembrane space (IMS). Precursor proteins to be imported into the IMS are translocated in their reduced form into the mitochondria. The oxidized form of CHCHD4/MIA40 forms a transient intermolecular disulfide bridge with the reduced precursor protein, resulting in oxidation of the precursor protein that now contains an intramolecular disulfide bond and is able to undergo folding in the IMS. Reduced CHCHD4/MIA40 is then reoxidized by GFER/ERV1 via a disulfide relay system. Mediates formation of disulfide bond in MICU1 in the IMS, promoting formation of the MICU1-MICU2 heterodimer that regulates mitochondrial calcium uptake.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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