Calcium-Binding Protein P22 (CHP) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Calcium-binding protein p22 (CHP), Recombinant Protein
Full Product Name	Recombinant Bovine Calcium-binding protein p22 (CHP)
Product Gene Name	CHP recombinant protein
Product Synonym Gene Name	CHP
Sequence	GSRASTLLRD EELEEIKKET GFSHSQITRL YSRFTSLDKG ENGTLSREDF QRIPELAINP LGDRIINAFF PEGEDQVNFR GFMRTLAHFR PIEDNEKSKD VNGPEPLNSR SNKLHFAFRL YDLDKDDKIS RDELLQVLRM MVGVNISDEQ LGSIADRTIQ EADQDGDSAI SFTEFVKVLE KVDVEQKMSI RFLH
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	22,442 Da
Sequence Positions	2-195, 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 Q3SYS6
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CHP recombinant protein	MBS1326433 is a recombinant protein targeting CHP. Also known as Recombinant Bovine Calcium-binding protein p22 (CHP). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CHP 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 CHP. It may not necessarily be applicable to this product.

NCBI GI #	115497570
NCBI GeneID	512662
NCBI Accession #	NP_001069044.1
UniProt Primary Accession #	Q3SYS6
UniProt Related Accession #	Q3SYS6
GenBank Nucleotide #	NM_001075576.1

NCBI Official Full Name	calcineurin B homologous protein 1
NCBI Official Synonym Full Names	calcineurin like EF-hand protein 1
NCBI Official Symbol	CHP1
NCBI Official Synonym Symbols	CHP
UniProt Protein Name	Calcineurin B homologous protein 1
UniProt Synonym Protein Names	Calcineurin B-like protein; Calcium-binding protein CHP; Calcium-binding protein p22; EF-hand calcium-binding domain-containing protein p22
Protein Family	Chaoptin
UniProt Gene Name	CHP1
UniProt Synonym Gene Names	CHP
NCBI Protein Information	calcineurin B homologous protein 1
UniProt Comments for CHP	Calcium-binding protein involved in different processes such as regulation of vesicular trafficking, plasma membrane Na+/H+ exchanger and gene transcription. Involved in the constitutive exocytic membrane traffic. Mediates the association between microtubules and membrane-bound organelles of the endoplasmic reticulum and Golgi apparatus and is also required for the targeting and fusion of transcytotic vesicles (TCV) with the plasma membrane. Functions as an integral cofactor in cell pH regulation by controlling plasma membrane-type Na+/H+ exchange activity. Affects the pH sensitivity of SLC9A1/NHE1 by increasing its sensitivity at acidic pH. Required for the stabilization and localization of SLC9A1/NHE1 at the plasma membrane. Inhibits serum- and GTPase-stimulated Na+/H+ exchange. Plays a role as an inhibitor of ribosomal RNA transcription by repressing the nucleolar UBF1 transcriptional activity. May sequester UBF1 in the nucleoplasm and limit its translocation to the nucleolus. Associates to the ribosomal gene promoter. Acts as a negative regulator of the calcineurin/NFAT signaling pathway. Inhibits NFAT nuclear translocation and transcriptional activity by suppressing the calcium-dependent calcineurin phosphatase activity. Also negatively regulates the kinase activity of the apoptosis-induced kinase STK17B. Inhibits both STK17B auto- and substrate-phosphorylations in a calcium-dependent manner ().
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