Heat Shock 70 Kda Protein (HSPA2) Chicken Recombinant Protein

PRODUCT OVERVIEW

Product Name	Heat shock 70 kDa protein (HSPA2), Recombinant Protein
Full Product Name	Recombinant Chicken Heat shock 70 kDa protein, partial
Product Gene Name	HSPA2 recombinant protein
Sequence	GKGPAIGIDL GTTYSCVGVF QHGKVEIIAN DQGNRTTPSY VAFTDTERLI GDAAKNQVAM NPTNTIFDAK RLIGRKYDDP TVQSDMKHWP FRVVNEGGKP KVQVEYKGEM KTFFPEEISS MVLTKMKEIA EAYLGKKVET AVITVPAYFN DSQRQATKDA GTITGLNVMR IINEPTAAAI AYGLDKKGTR AGEKNVLIFD LGGGTFDVSI LTIEDGIFEV KSTAGDTHLG GEDFDNRMVN RFVEEFKGKH KRDNAGNKRA VRRLRTACER ARRTLSSSTQ ASIEIDSLFE GIDFYTSITR ARFEELNADL FRGTLEPVEK ALRDAKLDKG QIQEIVLVGG STRIPKIQKL LQDFFNGKEL NKSINPDEAV AYGAAVQAAI LMGDKSE
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	69,751 Da
Sequence Positions	3-389. Partial
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 P08106
Species	Chicken
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HSPA2 recombinant protein	MBS1260915 is a recombinant protein targeting HSPA2. Also known as Recombinant Chicken Heat shock 70 kDa protein, partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of HSPA2 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 HSPA2. It may not necessarily be applicable to this product.

NCBI GI #	55742654
NCBI GeneID	423504
NCBI Accession #	NP_001006686.1
UniProt Primary Accession #	P08106
UniProt Related Accession #	P08106

GenBank Nucleotide #	NM_001006685.1
NCBI Official Full Name	heat shock 70 kDa protein
NCBI Official Synonym Full Names	heat shock 70kDa protein 2
NCBI Official Symbol	HSPA2
NCBI Official Synonym Symbols	HSP70
UniProt Protein Name	Heat shock 70 kDa protein
Protein Family	Heat shock-related 70 kDa protein
UniProt Gene Name	HSP70
UniProt Synonym Gene Names	HSP70
NCBI Protein Information	heat shock 70 kDa protein
UniProt Comments for HSPA2	Molecular chaperone implicated in a wide variety of cellular processes, including protection of the proteome from stress, folding and transport of newly synthesized polypeptides, activation of proteolysis of misfolded proteins and the formation and dissociation of protein complexes. Plays a pivotal role in the protein quality control system, ensuring the correct folding of proteins, the re-folding of misfolded proteins and controlling the targeting of proteins for subsequent degradation. This is achieved through cycles of ATP binding, ATP hydrolysis and ADP release, mediated by co-chaperones. The affinity for polypeptides is regulated by its nucleotide bound state. In the ATP-bound form, it has a low affinity for substrate proteins. However, upon hydrolysis of the ATP to ADP, it undergoes a conformational change that increases its affinity for substrate proteins. It goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release.
Research Articles on HSPA2	**1.** data indicate that HSP70 is part of the receptor complex of Avian infectious bronchitis virus (IBV) and might help to understand the mechanism of S-mediated cell entry of IBV
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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