Heat Shock Protein HSP 90-Alpha 1 (Hsp90a.1) (hsp90a.1) Danio Rerio Recombinant Protein

PRODUCT OVERVIEW

Product Name	Heat shock protein HSP 90-alpha 1 (hsp90a.1), Recombinant Protein
Full Product Name	Recombinant Danio rerio Heat shock protein HSP 90-alpha 1 (hsp90a.1), partial
Product Gene Name	hsp90a.1 recombinant protein
Product Synonym Gene Name	hsp90a.1
Sequence	HNDDEQYIWE SAAGGSFTVK PDFGESIGRG TKVILHLKED QSEYVEEKRI KEVVKKHSQF IGYPITLYIE KQREKEVDLE EGEKQEEEEV AAGEDKDKPK IEDLGADEDE DSKDGKNKRK KKVKEKYIDA QELNKTKPIW TRNPDDITNE EYGEFYKSLS NDWEDHLAVK HFSVEGQLEF RALLFVPRRA AFDLFENKKK RNNIK
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	27.9 kDa
Sequence Positions	151-355aa; 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 Q90474
Species	Zebrafish
Production Note	**Special Offer:** The Baculovirus host-expressed protein is manufactured from a stock plasmid containing the protein gene. Baculovirushost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The Baculovirus host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select Baculovirus host-expressed protein for the fastest delivery among all hosts. Please contact our **technical support team** **or email to support@mybiosource.com** for more details.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for hsp90a.1 recombinant protein	MBS1471609 is a recombinant protein targeting hsp90a.1. Also known as Recombinant Danio rerio Heat shock protein HSP 90-alpha 1 (hsp90a.1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of hsp90a.1 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 hsp90a.1. It may not necessarily be applicable to this product.

NCBI GI #	18858873
NCBI GeneID	30591
NCBI Accession #	NP_571403.1
UniProt Primary Accession #	Q90474
UniProt Secondary Accession #	Q5RG13; Q6DI33
UniProt Related Accession #	Q90474
GenBank Nucleotide #	NM_131328.1
NCBI Official Full Name	heat shock protein HSP 90-alpha 1
NCBI Official Synonym Full Names	heat shock protein 90, alpha (cytosolic), class A member 1, tandem duplicate 1
NCBI Official Symbol	hsp90aa1.1
NCBI Official Synonym Symbols	hsp90; hsp90a; fb17b01; hsp90a.1; zgc:86652; hsp90alpha; wu:fb17b01
UniProt Protein Name	Heat shock protein HSP 90-alpha 1
Protein Family	Heat shock protein
UniProt Gene Name	hsp90a.1
UniProt Synonym Gene Names	hsp90; hsp90a; hsp90aa1
NCBI Protein Information	heat shock protein HSP 90-alpha 1
UniProt Comments for hsp90a.1	Molecular chaperone that promotes the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. Undergoes a functional cycle that is linked to its ATPase activity which is essential for its chaperone activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. Interacts dynamically with various co-chaperones that modulate its substrate recognition, ATPase cycle and chaperone function. Engages with a range of client protein classes via its interaction with various co-chaperone proteins or complexes, that act as adapters, simultaneously able to interact with the specific client and the central chaperone itself. Recruitment of ATP and co-chaperone followed by client protein forms a functional chaperone. After the completion of the chaperoning process, properly folded client protein and co-chaperone leave HSP90 in an ADP-bound partially open conformation and finally, ADP is released from HSP90 which acquires an open conformation for the next cycle (). Plays a key role in slow and fast muscle development in the embryo. Plays a role in myosin expression and assembly (PubMed:10364427, PubMed:17586488, PubMed:18182494, PubMed:18256191).
Research Articles on hsp90a.1	**1.** The transcriptional up-regulation of unc45b, hsp90aa1.1 and smyd1b is specific to zebrafish mutants with myosin folding defects, and is not triggered in other zebrafish myopathy models
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