

Recombinant Human Heat Shock 70kDa Protein 8, His-tagged

Cat. No. HSPA8-4712H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSC70 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 666 amino acids (1-646 a.a.) and having a molecular mass of 73.1kDa. HSC70 human recombinant is fused to 20 amino acid His Tag at N-terminus and purified by conventional chromatography techniques.
Species	Human
Source	Human
ProteinLength	1-646 a.a.
Description	HSPA8 is part of the heat shock protein 70 family which includes both heat-inducible and constitutively expressed proteins (heat-shock cognate proteins). HSPA8 is a heat-shock cognate protein that binds to nascent polypeptides to facilitate correct folding. HSPA8 is directly linked with Influenza virus matrix protein 1 and thus required for viral production.
Form	The HSC70 protein solution contains 20mM Tris, pH-8 & 10% Glycerol.
Purity	Greater than 90.0% as determined by SDS-PAGE.
Physical Appearance	Sterile filtered colorless solution.
Amino acid sequence	MGSSHHHHHH SSGLVPRGSH MSKGPAVGID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPS YVAFTDTERL IGDAAKNQVA MNPTNTVFDA KRLIGRRFDD

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AVVQSDMKHW PFMVVNDAGR PKVQVEYKGE TKSFYPEEVS SMVLTKMKEI
 AEAYLGKTVT NAVVTVPAYF NDSQRQATKD AGTIAGLNVL RIINEPTAAA
 IAYGLDKKVG AERNVLIFDL GGGTFDVSIL TIEDGIFEVK STAGDTHLGG
 EDFDNRMVNH FIAEFKRKHK KDISENKRAV RRLRTACERA KRTLSSSTQA
 SIEIDSLYEG IDFYTSITRA RFEELNADLF RGTLDPVEKA LRDAKLDKSQ
 IHDIVLVGGS TRIPKIQKLL QDFFNGKELN KSINPDEAVA YGAAVQAAIL
 SGDKSENVQD LLLLDVTPLS LGIETAGGVM TVLIKRNNTI PTKQTQTFTT
 YSDNQPGVLI QVYEGERAMT KDNLLGKFE LTGIPPAPRG VPQIEVTFDI
 DANGILNVSA VDKSTGKENK ITITNDKGRL SKEDIERMVQ EAEKYKAEDE
 KQRDKVSSKN SLESYAFNMK ATVEDEKLQG KINDEDKQKI LDKCNEIINW
 LDKNQTAKEKE EFEHQQKELE KVCNPIITKL YQSAGGMPGG MPGGFPGGGA
 PPSGGASSGP TIEEVD.

Storage

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Pathways

Antigen processing and presentation; C-MYB transcription factor network; Clathrin derived vesicle budding; Lysosome Vesicle Biogenesis; MAPK signaling pathway; Measles; Metabolism of RNA; Spliceosome; Toxoplasmosis

GENE INFORMATION

Gene Name

HSPA8 heat shock 70kDa protein 8 [Homo sapiens]

Official Symbol

HSPA8

Synonyms

HSPA8; heat shock 70kDa protein 8; LAP1; HSC54; HSC70; HSC71; HSP71; HSP73; NIP71; HSPA10; MGC29929; MGC131511; LPS-associated protein 1; heat shock 70kD protein 8; heat shock 70kd protein 10; heat shock cognate protein 54;

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constitutive heat shock protein 70; heat shock cognate protein, 71-kDa;
lipopolysaccharide-associated protein 1; N-myristoyltransferase inhibitor protein 71;
Heat shock cognate 71 kDa protein; constitutive heat shock protein 70; heat shock
70kd protein 10

Gene ID [3312](#)

mRNA Refseq [NM_006597](#)

Protein Refseq [NP_006588](#)

MIM [600816](#)

UniProt ID [P11142](#)

**Chromosome
Location** 11q24.1

Function ATP binding; ATPase activity, coupled; nucleotide binding; unfolded protein binding

**PDB rendering based
on 1atr.**

