

Recombinant Human Heat Shock 70kDa Protein 8

Cat. No. HSPA8-1809H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HSC70 protein was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW = 73.1 kDa (666aa).
Species	Human
Source	<i>E. coli</i>
Description	HSC70, also known as heat shock 70 kDa protein 8, belongs to the heat shock protein 70 family which contains both heat-inducible and constitutively expressed members. The latter are called heat-shock cognate proteins. This protein is a heat-shock cognate protein. HSC70 binds to nascent polypeptides to facilitate correct folding. It also functions as an ATPase in the disassembly of clathrin-coated vesicles during transport of membrane components through the cell.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSKGPAVGID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPS YVAFTDTERL IGDAAKNQVA MNPTNTVFDA KRLIGRRFDD AVVQSDMKHW PFMVVNDAGR PKVQVEYKGE TKSFPYEEVS 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 YGA AVQAAIL SGDKSENVQD LLLLDVTPLS LGIETAGGVM TVLIKRNTTI PTKQTQTFTT YSDNQPGVLI QVYEGERAMT KDNLLGKFE LTGIPPAPRG VPQIEVTFDI

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DANGILNVSA VDKSTGKENK ITITNDKGRL SKEDIERMVQ EAEKYKAEDE
KQRDKVSSKN SLESYAFNMK ATVEDEKLQG KINDEDKQKI LDKCNEIINW
LDKNQTAEKE EFEHQQKELE KVCNPIITKL YQSAGGMPGG MPGGFPGGGA
PPSGGASSGP TIEEVD

Form	Liquid. In 20mM Tris buffer (pH 8.0) containing 10% glycerol.
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	HSPA8 heat shock 70kDa protein 8 [Homo sapiens]
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; 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

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MIM	600816
UniProt ID	P11142
Chromosome Location	11q24.1
Pathway	Antigen processing and presentation; Endocytosis; MAPK signaling pathway
Function	ATP binding; ATPase activity, coupled; nucleotide binding; unfolded protein binding
PDB rendering based on 1atr.	