

Product datasheet for TP509728

Hspa8 (BC085486) Mouse Recombinant Protein

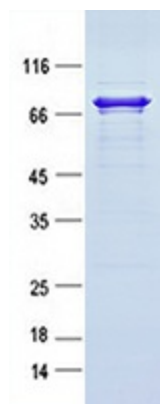
Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse heat shock protein 8 (cDNA clone MGC:102008 IMAGE:30540914), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209728 protein sequence Red =Cloning site Green =Tags(s)
	<p>MSKGPVAVGIDLGTTYSYCVGVFQHGKVEIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDA KRLIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVT NAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAEARNVLIIDLGGGTFDVSIL TIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFAIEFKRKHKKDISENKRAVRRRLRTACERAKRTLSSSTQA SIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIIVLGGSTRIPKIQKLL QDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLDVTPLSLGIETAGGVMTVLIKRNTTI PTKQTQFTTYSNQPGLVIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVVPQIEVTFDIDANGILNVSA VDKSTGKENKITITNDKGRLSKEDIERMVQEAKEYKADEKQRDKVSSKNSLESYAFNMKATVEDEKLQG KINDEDKQKILDKCNEIISWLDKNQTAEEKEFEHQQKELEKVCNPIITKLYQSAGGMPGGMPGGFPGGGA PPSGGASSGPTIEEVD</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	70.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Locus ID:	15481
UniProt ID:	P63017
RefSeq Size:	2129
Cytogenetics:	9 21.55 cM
RefSeq ORF:	1938
Synonyms:	Hsc73, Hsc71, Hsp73, Hspa10
Summary:	<p>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 co-chaperones have been shown to not only regulate different steps of the ATPase cycle of HSP70, but they also have an individual specificity such that one co-chaperone may promote folding of a substrate while another may promote degradation. The affinity of HSP70 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. HSP70 goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release. The HSP70-associated co-chaperones are of three types: J-domain co-chaperones HSP40s (stimulate ATPase hydrolysis by HSP70), the nucleotide exchange factors (NEF) such as BAG1/2/3 (facilitate conversion of HSP70 from the ADP-bound to the ATP-bound state thereby promoting substrate release), and the TPR domain chaperones such as HOPX and STUB1. Acts as a repressor of transcriptional activation. Inhibits the transcriptional coactivator activity of CITED1 on Smad-mediated transcription. Component of the PRP19-CDC5L complex that forms an integral part of the spliceosome and is required for activating pre-mRNA splicing. May have a scaffolding role in the spliceosome assembly as it contacts all other components of the core complex. Binds bacterial lipopolysaccharide (LPS) and mediates LPS-induced inflammatory response, including TNF secretion. Participates in the ER-associated degradation (ERAD) quality control pathway in conjunction with J domain-containing co-chaperones and the E3 ligase STUB1.[UniProtKB/Swiss-Prot Function]</p>

Product images:

Purified recombinant protein Hspa8 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.