

Active Recombinant Human HSPA8, His-tagged

Cat. No. HSPA8-28200TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSPA8, fused with His tag, was expressed in E. coli
Species	Human
Source	E.coli
Description	Heat shock 70 kDa protein 8 also known as heat shock cognate 71 kDa protein or Hsc70 or Hsp73 is a heat shock protein that in humans is encoded by the HSPA8 gene. As a member of the heat shock protein 70 family and a chaperone protein, it facilitates the proper folding of newly translated and misfolded proteins, as well as stabilize or degrade mutant proteins. Its functions contribute to biological processes including signal transduction, apoptosis, protein homeostasis, and cell growth and differentiation. It has been associated with an extensive number of cancers, neurodegenerative diseases, cell senescence and aging.
Form	20mM Tris/HCl pH7.5, 1mM EDTA.
Bio-activity	The protein has ATPase activity at the time of manufacture of 3.2μM phosphate liberated/hr/μg protein in a 200μl reaction at 37°C (pH 8) in the presence of 20ul of 1mM ATP using a Malachite Green assay.
Molecular Mass	Molecular weight of approximately 73kDa
Purity	>90% pure using SDS-PAGE analysis.

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Applications	ATPase Assay, WB control, Binding Assay, ELISA reference standard
Stability	Store at -20°C; more than 1 year. Avoid freeze/ thaw cycle.
Concentration	2.1 mg/mL
GENE INFORMATION	
Gene Name	HSPA8 heat shock 70kDa protein 8 [Homo sapiens]
Official Symbol	HSPA8
Synonyms	LAP1; HSC54; HSC70; HSC71; HSP71; HSP73; LAP-1; NIP71; HEL-33; HSPA10; HEL-S-72p; heat shock cognate 71 kDa protein; LPS-associated protein 1; N-myristoyltransferase inhibitor protein 71; constitutive heat shock protein 70; epididymis luminal protein 33; epididymis secretory sperm binding protein Li 72p; heat shock 70kd protein 10; heat shock cognate protein 54; lipopolysaccharide-associated protein 1
Gene ID	3312
mRNA Refseq	NM_006597
Protein Refseq	NP_006588
MIM	600816
UniProt ID	P11142
Chromosome Location	11q24.1

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Pathway	AUF1 (hnRNP D0) destabilizes mRNA, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Developmental Biology, organism-specific biosystem
Function	ATP binding; ATPase activity; C3HC4-type RING finger domain binding

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