Recombinant Human HSPA1B

Cat. No. HSPA1B-29402TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Hsp70, MWt 70kDa.
Species	Human
Source	E.coli
Description	This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjuction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene is located in the major histocompatibility complex class III region, in a cluster with two closely related genes which encode similar proteins.
Tissue specificity	HSPA1B is testis-specific.
Biological activity	ATPase assay: positive
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 1X Dulbeccos PBS
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Sequence Similarities	Belongs to the heat shock protein 70 family.
Full Length	Full L.

GENE INFORMATION

Gene Name	HSPA1B heat shock 70kDa protein 1B [Homo sapiens]
Official Symbol	HSPA1B
Synonyms	HSPA1B; heat shock 70kDa protein 1B; heat shock 70kD protein 1B; heat shock 70 kDa protein 1A/1B; HSP70 2;
Gene ID	3304
mRNA Refseq	NM_005346
Protein Refseq	NP_005337
MIM	603012
Uniprot ID	P08107
Chromosome Location	6p21.3
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Apoptosis Modulation by HSP70, organism-

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	specific biosystem; Destabilization of mRNA by AUF1 (hnRNP D0), organism-specific biosystem;
Function	ATP binding; nucleotide binding; protein N-terminus binding; protein binding; protein binding involved in protein folding;

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