

Recombinant Human Heat Shock 70kDa Protein 6 (HSP70B), His-tagged

Cat. No. HSPA6-1811H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HSP70B, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 73.2 kDa (663aa).
Species	Human
Source	E.coli
Description	HSP70B is a unique member of the human Hsp70 chaperone involved in cellular processes such as protein trafficking, folding, and prevention of aggregation. This protein is strictly stress-inducible, having little or no basal expression levels in most cells. HSP70B and Hsp72 are closely related and play cooperative roles in cell survival of proteotoxic stress.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MQAPRELAVG IDLGTTYSCV GVFFQGRVEI LANDQGNRTT PSYVAFTDTE RLVGDAAKSQ AALNPHNTVF DAKRLIGRKF ADTTVQSDMK HWPFRVVSEG GKPKVRVCYR GEDKTFYPEE ISSMVLSKMK ETAEAYLGQP VKHAVITVPA YFNDSQRQAT KDAGAIAGLN VLRIINEPTA AAIAYGLDRR GAGERNVLIF DLGGGTDFVS VLSIDAGVFE VKATAGDTHL GGEDFDNRLV NHFMEEFRRK HGKDLSGNKR ALRRLRTACE RAKRTLSSST QATLEIDSLF EGVDFYTSIT RARFEELCSD LFRSTLEPVE KALRDAKLDK AQIHDVVLVG GSTRIPKVQK LLQDFFNGKE LNKSINPDEA VAYGAAVQAA VLMGDKCEKV QDLLLLDVAP LSLGLETAGG VMTTLIQRNA TIPTKQTQTF TTYSDNQPGV FIQVYEGERA MTKDNNLLGR FELSGIPPAP RGVPQIEVTF

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DIDANGILSV TATDRSTGKA NKITITNDKG RLSKEEVERM VHEAEQYKAE
DEAQRDRVAA KNSLEAHVFH VKGSLQEEESL RDKIPEEDRR KMQDKCREVL
AWLEHNQLAE KEEYEHQKRE LEQICRPIFS RLYGGPGVPG GSSCGTQARQ
GDPSTGPIIE EVD

Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 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	HSPA6 heat shock 70kDa protein 6 (HSP70B") [Homo sapiens]
Synonyms	HSPA6; heat shock 70kDa protein 6 (HSP70B"); heat shock 70kD protein 6 (HSP70B"); Heat shock 70 kDa protein 6; HSP70B"; Heat shock 70 kDa protein B"
Gene ID	3310
mRNA Refseq	NM_002155
Protein Refseq	NP_002146
MIM	140555
UniProt ID	P17066

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Chromosome Location	1q23
Pathway	Antigen processing and presentation; Endocytosis; MAPK signaling pathway
Function	ATP binding; nucleotide binding

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