Recombinant Human heat shock 70kDa protein 1A, His-tagged

Cat. No. HSPA1A-4851H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human HSP70 was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Sf9 Cells
Description	HSP70 is a member of the heat shock protein family and is synthesized by cells of many organisms in response to stress. HSP70 is found mostly but not exclusively in the nucleus of unstressed cells. For several hours after a short heat shock, however, it is strongly concentrated in nucleoli. Nucleoli are transiently damaged by such a heat shock: their morphology changes and assembly and export of ribosomes is blocked for several hours.
Applications	ATPase Assay; Western Blot
Molecular Weight	70 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM sodium phosphate, PH 7.0, 300 mM NaCl, 150 mM imidazole, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Purity	>90%

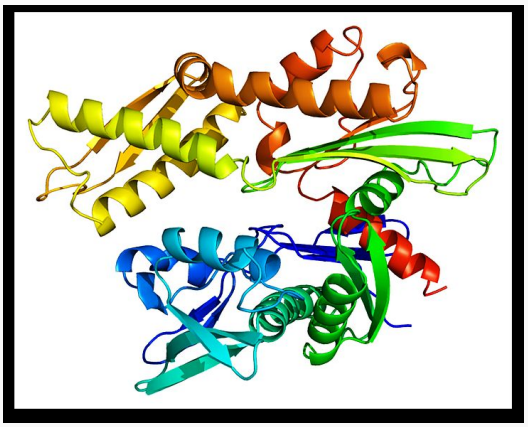
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Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Antigen processing and presentation; Antigen processing and presentation; Apoptosis Modulation by HSPA1A; Direct p53 effectors; Endocytosis; Influenza A; MAPK signaling pathway; Measles; Prion diseases; Protein processing in endoplasmic reticulum; Spliceosome; Toxoplasmosis; FOXM1 transcription factor network

GENE INFORMATION

Gene Name	HSPA1A heat shock 70kDa protein 1A [Homo sapiens]
Official Symbol	HSPA1A
Synonyms	HSPA1A; heat shock 70kDa protein 1A; HSP72; HSPA1; HSPA1AI; HSPA1B; HSPA1A-1; FLJ54303; FLJ54370; FLJ54392; FLJ54408; FLJ75127; HSPA1A-1A; heat shock 70 kDa protein 1A/1B; HSPA1A-1/HSPA1A-2; HSPA1A.1/HSPA1A.2; OTTHUMP00000029287; heat shock 70kD protein 1A; heat shock-induced protein; heat shock 70 kDa protein 1/2; dnaK-type molecular chaperone HSPA1A-1
Gene ID	3303
mRNA Refseq	NM_005345
Protein Refseq	NP_005336

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MIM	140550
UniProt ID	P08107
Chromosome Location	6p21
PDBrendering based on 1hjo.	

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