

HSP70 recombinant protein

HSP70 recombinant protein

CATALOG # AAA72885	HOST E Coli	APPLICATIONS Western Blot
------------------------------	-----------------------	-------------------------------------

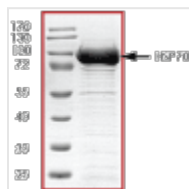
PRODUCT SYNONYMS

HSP70; HSP70 recombinant protein; HSPA1A; HSP70-1; HSP72; HSPA1; HSPA1B. DAQB-147D11.1

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90%
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.2 ug/ul (varies by lot)
Sequence Length	2445
Applicable Applications for HSP70 recombinant protein	WB (Western Blot), ATPase Assay
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	E.coli
Source Note	Recombinant full-length human HSP70 was expressed in E. coli cells
Accession Number	NM 005345
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree 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. Stability: 1 year at -70 degree C from date of shipment.

IMAGES



SDS-PAGE

The purity was determined to be >90% by densitometry. Approx. MW 96kDa

ADDITIONAL INFORMATION

Related Product Information for HSP70 recombinant protein	Recombinant full-length human HSP70 was expressed in E. coli cells using an N-terminal GST tag. Scientific Background: HSP70 is a member of the heat shock protein family and is synthesized by cells of many organisms in response to stress (1). 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 (2). Nucleoli are transiently damaged by such a heat shock: their morphology changes and assembly and export of ribosomes is blocked for several hours. HSP70 helps to stabilize the morphological changes of the nucleoli.
Product Categories/Family for HSP70 recombinant protein	Cell Stress & Chaperone Proteins; Signaling Proteins - Cell Stress & Chaperone Proteins
References	1. Moran, L A. et al: The major heat-shock protein (hsp70) gene family: related sequences in mouse, Drosophila, and yeast. Can J Biochem Cell Biol. 1983 Jun;61(6):488-99. 2. Pelham, H R: Hsp70 accelerates the recovery of nucleolar morphology after heat shock. EMBO J. 1984 Dec 20;3(13):3095-100.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194248071
NCBI GeneID	3303
NCBI Accession #	NP_005336.3
NCBI GenBank Nucleotide #	NM_005345
UniProt Accession #	P08107; P19790; Q5JQI4; Q5SP17; Q9UQL9; Q9UQM0; B4E3B6
Molecular Weight	~96 kDa
NCBI Official Full Name	Homo sapiens heat shock 70kDa protein 1A (HSPA1A), mRNA
NCBI Official Synonym Full Names	heat shock 70kDa protein 1A
NCBI Official Symbol	HSPA1A
NCBI Official Synonym Symbols	HSP72; HSPA1; HSP70I; HSP70-1; HSP70-1A
NCBI Protein Information	heat shock 70 kDa protein 1A/1B; HSP70-1/HSP70-2; heat shock 70kD protein 1A; heat shock-induced protein; heat shock 70 kDa protein 1/2; dnaK-type molecular chaperone HSP70-1
UniProt Protein Name	Heat shock 70 kDa protein 1A/1B
UniProt Gene Name	HSPA1A
UniProt Synonym Gene Names	HSPA1; HSX70; HSP70-1/HSP70-2
UniProt Entry Name	HSP71_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.