

Active Recombinant Human HSPA1A Protein, His-tagged

Cat. No. HSPA1A-067H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active N-terminal Histidine-tagged full length human Hsp70 protein (2-641) was purified from E. coli.
Species	Human
Source	E.coli
ProteinLength	2-641
Description	This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjunction 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.
Bio-activity	ATPase activity confirmed by ADP detection assay.
Molecular Mass	71.7 kDa
Purity	≥90% as determined by SDS-PAGE
Stability	≥ 6 months

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

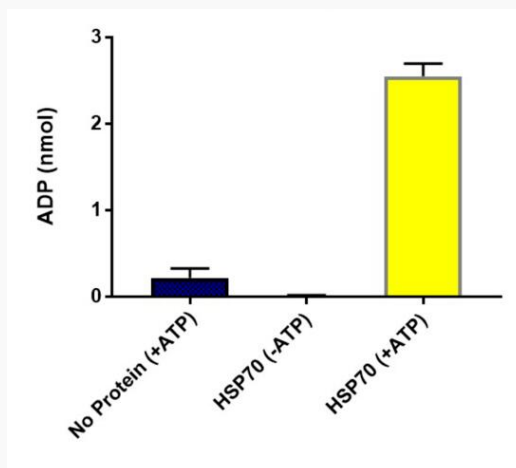
Storage	At -80 centigrade.
Storage Buffer	50 mM HEPES pH 8.0, 150 mM sodium chloride, 1 mM DTT, 10% glycerol
GENE INFORMATION	
Gene Name	HSPA1A heat shock protein family A (Hsp70) member 1A [Homo sapiens (human)]
Official Symbol	HSPA1A
Synonyms	HSPA1A; heat shock protein family A (Hsp70) member 1A; HSP72; HSPA1; HSP70I; HSP70-1; HSP70-2; HSP70.1; HSP70.2; HSP70-1A; HEL-S-103; heat shock 70 kDa protein 1A; HSP70-1/HSP70-2; HSP70.1/HSP70.2; Heat shock 70 kDa protein 1B; Heat shock 70 kDa protein 2; dnaK-type molecular chaperone HSP70-1; epididymis secretory protein Li 103; epididymis secretory sperm binding protein; heat shock 70 kDa protein 1; heat shock 70 kDa protein 1/2; heat shock 70 kDa protein 1A/1B; heat shock 70kD protein 1A; heat shock 70kDa protein 1A; heat shock-induced protein
Gene ID	3303
mRNA Refseq	NM_005345
Protein Refseq	NP_005336
MIM	140550
UniProt ID	P0DMV8

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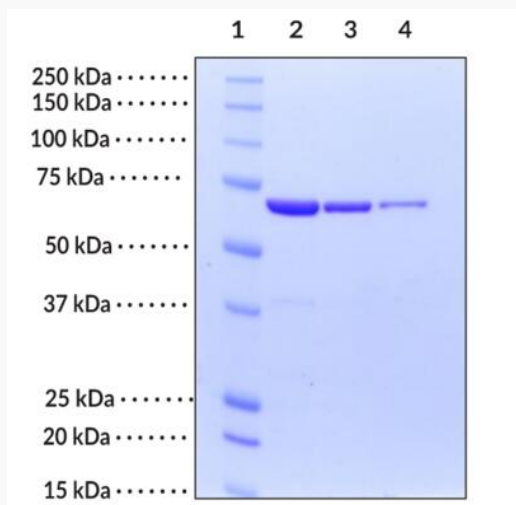
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ATPase Activity of HSP70



SDS-PAGE analysis of Hsp70



Lane 1: MW Markers

Lane 2: Hsp70 (4 µg)

Lane 3: Hsp70 (2 µg)

Lane 4: Hsp70 (1 µg)