# Active Recombinant Human HSPA1A Protein, His-tagged

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

## SPECIFICATION

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|---|---|
| **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 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. |
| **Bio-activity** | ATPase activity confirmed by ADP detection assay. |
| **Molecular Mass** | 71.7 kDa |
| **Purity** | ≥90% as determined by SDS-PAGE |
| **Stability** | ≥ 6 months |

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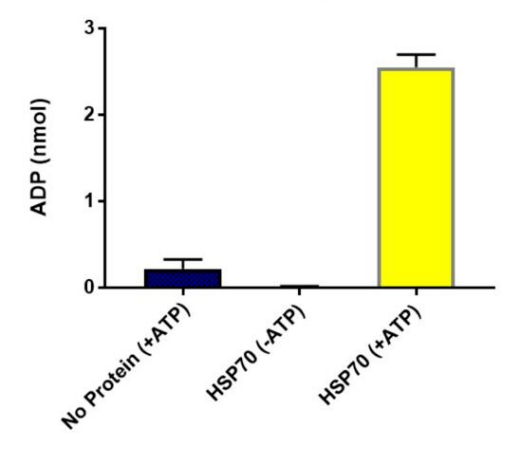
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|---|---|
| **Storage** | At -80 centigrade. |
| **Storage Buffer** | 50 mM HEPES pH 8.0, 150 mM sodium chloride, 1 mM DTT, 10% glycerol |

## GENE INFORMATION

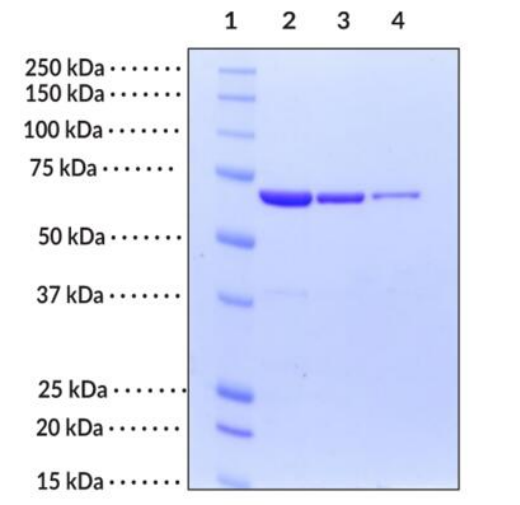
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|---|---|
| **Gene Name** | HSPA1A heat shock protein family A (Hsp70) member 1A [ Homo sapiens (human) ] |
| **Official Symbol** | HSPA1A |
| **Synonyms** | HSPA1A; heat shock protein family A (Hsp70) member 1A; HSP72; HSPA1; HSP70I; HSP70-1; HSP70-2; 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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**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)

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