

## Product datasheet for **AR09035PU-N**

### Heat shock protein 70 / HSP70 (1-641, His-tag) Human Protein

#### Product data:

|                      |   |
|----------------------|---|
| Product Type:        | Recombinant Proteins  |
| Description:         | Heat shock protein 70 / HSP70 (1-641, His-tag) human recombinant protein, 0.1 mg  |
| Species:             | Human   |
| Expression Host:     | E. coli   |
| Tag:                 | His-tag   |
| Predicted MW:        | 72.2 kDa  |
| Concentration:       | lot specific  |
| Purity:              | >95% pure by SDS PAGE   |
| Buffer:              | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris pH 7.5, 2 mM DTT  |
| Endotoxin:           | < 1.0 EU per 1 microgram of protein (determined by LAL method)  |
| Preparation:         | Liquid purified protein   |
| Protein Description: | Recombinant human Hsp70, fused to <u>His-tag</u> at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| Storage:             | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer.<br>Avoid repeated freezing and thawing.                         |
| Stability:           | Shelf life: one year from despatch.   |
| RefSeq:              | <a href="#">NP_005336</a>   |
| Locus ID:            | 3303  |
| Cytogenetics:        | 6p21.33   |
| Synonyms:            | HEL-S-103; HSP70-1; HSP70-1A; HSP70-2; HSP70.1; HSP70.2; HSP70I; HSP72; HSPA1   |

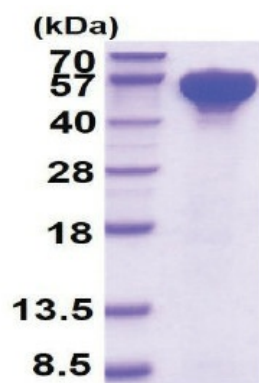


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**Summary:** This intronless gene encodes a 70kDa heat shock protein which is a member of the heat shock protein 70 family. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the 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. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Antigen processing and presentation, Endocytosis, MAPK signaling pathway, Prion diseases, Spliceosome

**Product images:**



10% SDS-PAGE (3ug)