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# Product datasheet for TP710001

## HSP70-1A (HSPA1A) (NM_005345) Human Recombinant Protein

### Product data:

| | |
|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Recombinant protein of human heat shock 70kDa protein 1A (HSPA1A), full length, with C-terminal polyhistidine tag, expressed in sf9 cells. |
| **Species:** | Human |
| **Expression Host:** | Sf9 |
| **Expression cDNA Clone or AA Sequence:** | A DNA sequence from TrueORF clone, RC200270, encoding human full-length HSPA1A |
| **Tag:** | C-His |
| **Predicted MW:** | 70 kDa |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Buffer:** | 50 mM Tris-HCl, pH 8.0, 150 mM NaCl, 20% glycerol |
| **Note:** | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| **Storage:** | Store at -80°C. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **RefSeq:** | NP_005336 |
| **Locus ID:** | 3303 |
| **UniProt ID:** | P0DMV8 |
| **RefSeq Size:** | 2383 |
| **Cytogenetics:** | 6p21.33 |
| **RefSeq ORF:** | 1923 |
| **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 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. [provided by RefSeq, Jul 2008]

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

## Product images: