

## Product datasheet for **AR03022PU-S**

### Heat shock protein 70 / HSP70 (active) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Heat shock protein 70 / HSP70 (active) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Concentration:	lot specific
Purity:	>95% pure as determined by SDS-PAGE analysis
Buffer:	Presentation State: Aff - Purified State: Liquid protein Buffer System: 20 mM Tris, 50 mM KCl, 5 mM MgCl <sub>2</sub> , 1 mM DTT, pH 7.5
Preparation:	Liquid protein
Applications:	ATPase Assay, WB control, Binding Assays, ELISA reference standard, Lipid Interaction Assays, Chaperone assays.
Protein Description:	Recombinant Human Hsp70 Protein, cloned from a human cDNA library, with ATPase activity, native sequence, no tags
Storage:	Store the antigen (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
RefSeq:	<a href="#">NP_005336</a>
Locus ID:	3303
UniProt ID:	<a href="#">P0DMV8</a>
Cytogenetics:	6p21.33
Synonyms:	HSP70.1, HSP70-1/HSP70-2, HSPA1A, HSPA1B, HSPA1



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<b>Summary:</b>	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]
<b>Protein Families:</b>	ATPase Assay, WB control, Binding Assays, ELISA reference standard, Lipid Interaction Assays, Chaperone assays.
<b>Protein Pathways:</b>	Antigen processing and presentation, Endocytosis, MAPK signaling pathway, Prion diseases, Spliceosome