

Active Recombinant Human HSPA1A Protein, His-tagged

Cat. No. HSPA1A-012H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human HSPA1A protein (2-641) with a N-terminal Histidine tag was purified from insect cells.
Species	Human
Source	Insect Cells
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.
Form	50 mM HEPES, pH 8.0, 150 mM sodium chloride, 1 mM DTT, and 10% glycerol
Bio-activity	ATPase activity confirmed by ADP detection assay
Molecular Mass	71.7 kDa
Purity	≥75% estimated by SDS-PAGE

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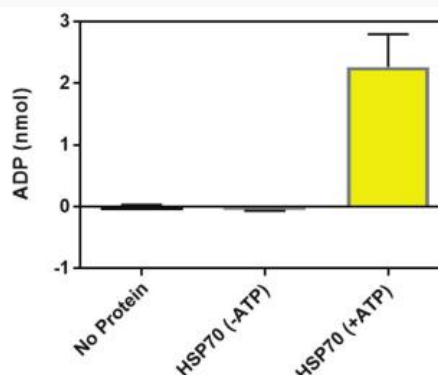
Stability	≥ 1 year
Storage	Store at -80 centigrade
Shipping	Dry ice in continental US; may vary elsewhere
GENE INFORMATION	
Gene Name	HSPA1A heat shock protein family A (Hsp70) member 1A [Homo sapiens (human)]
Official Symbol	HSPA1A
Synonyms	HSPA1A; heat shock protein family A (Hsp70) member 1A; HSP72; 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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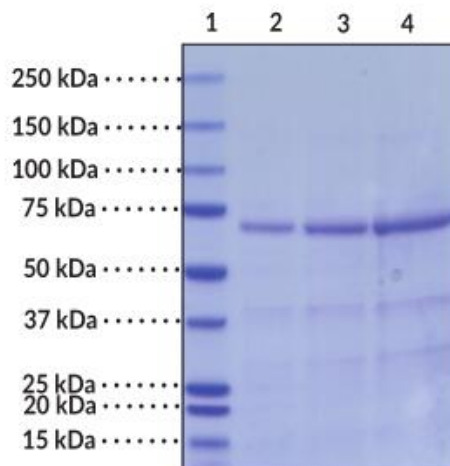
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ATPase Activity of HSPA4 Expressed In Insect Cell.



SDS-PAGE analysis of HSPA4.



Lane 1: MW Markers
Lane 2: HSPA4 BV (1 g)
Lane 3: HSPA4 BV (2 g)
Lane 4: HSPA4 BV (4 g)