

HSP70 Recombinant Protein | HSPA1A recombinant protein

HSP70 Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258246

HOST
HEK293 Cells

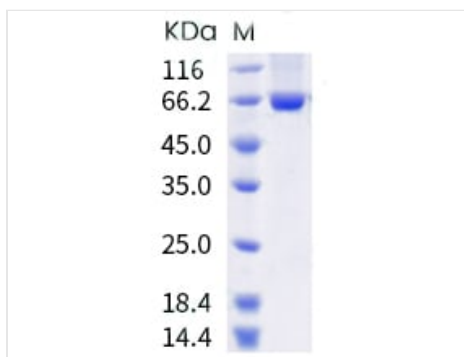
PRODUCT SYNONYMS

HSP70; HSP70 Protein; Mouse; Recombinant (His Tag); Mouse HSP70 Protein (His Tag); hsp68 Protein; Hsp70-3 Protein; Hsp70.3 Protein; hsp70A1 Protein; Hsp72 Protein; heat shock 70kDa protein 1A; HSPA1A recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	≥ 95% as determined by SDS-PAGE. ≥ 90% as determined by SEC-HPLC
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence	Ala2-Asp64 1
Source	Mouse
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Met
Protein Construction	A DNA sequence encoding the mouse HSPA1A (NP_034609.2)(Ala2-Asp641) was expressed with a polyhistidine tag at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for twelve months from date of receipt at -20 degree C to -80 degree C Store it under sterile conditions at -20 degree C to -80 degree C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for HSPA1A recombinant protein	HSPA1A is a member of the Hsp70 protein family. The 70 kilodalton heat shock proteins (Hsp70s) are a family of ubiquitously expressed heat shock proteins. HSP are abundant and conserved proteins present in all cells. Upon temperature shock or other stress stimuli, HSP is synthesized intracellularly, which may protect cells from protein denaturation or death. Extracellularly, HSP can serve a cytokine function to initiate both innate and adaptive immunity through activation of APC. HSP serves also a chaperone function and facilitates the presentation of antigen peptide to T cells. Molecular chaperones of the Hsp70 family have diverse functions in cells. They assist the folding of newly synthesized and stress-denatured proteins, as well as the import of proteins into organelles, and the dissociation of aggregated proteins. The well-conserved Hsp70 chaperones are ATP dependent: binding and hydrolysis of ATP regulate their interactions with unfolded polypeptide substrates, and ATPase cycling is necessary for their function. All cellular functions of Hsp70 chaperones use the same mechanism of ATP-driven polypeptide binding and release.
Product Categories/Family for HSPA1A recombinant protein	Death Receptor Signaling
References	Heck TG, et al. (2011) HSP70 expression: does it a novel fatigue signalling factor from immune system to the brain Cell Biochem Funct. 29 (3): 215-26.Chen T, et al. (2010) Stress for maintaining memory: HSP70 as a mobile messenger for innate and adaptive immunity. Eur J Immunol. 40 (6): 1541-4.Young JC. (2010) Mechanisms of the Hsp70 chaperone system. Biochem Cell Biol. 88 (2): 291-300.

NCBI AND UNIPROT INFORMATION

NCBI GI #	124339829
NCBI GeneID	193740
NCBI Accession #	NP_034609.2
NCBI GenBank Nucleotide #	NM_010479.2
UniProt Accession #	Q61696; Q61697; Q7TQD8; Q9QWJ5
Molecular Weight	The recombinant mouse HSPA1A consists of 651 amino acids and predicts a molecular mass of 71.5 kDa. It migrates as an approximately 64.3 kDa band in SDS-PAGE under reducing conditions.
NCBI Official Full Name	heat shock 70 kDa protein 1A
NCBI Official Synonym Full Names	heat shock protein 1A
NCBI Official Symbol	Hspa1a
NCBI Official Synonym Symbols	Hsp72; hsp68; Hsp70-3; Hsp70.3; hsp70A1
NCBI Protein Information	heat shock 70 kDa protein 1A
UniProt Protein Name	Heat shock 70 kDa protein 1A
UniProt Gene Name	Hspa1a
UniProt Synonym Gene Names	Hsp70-3; Hsp70A1; HSP70.3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hspa1a-recombinant-protein-hek293-cells/258246>