HSP70 (low endotoxin) (human), (recombinant)

Low endotoxin HSP70 recombinant protein.

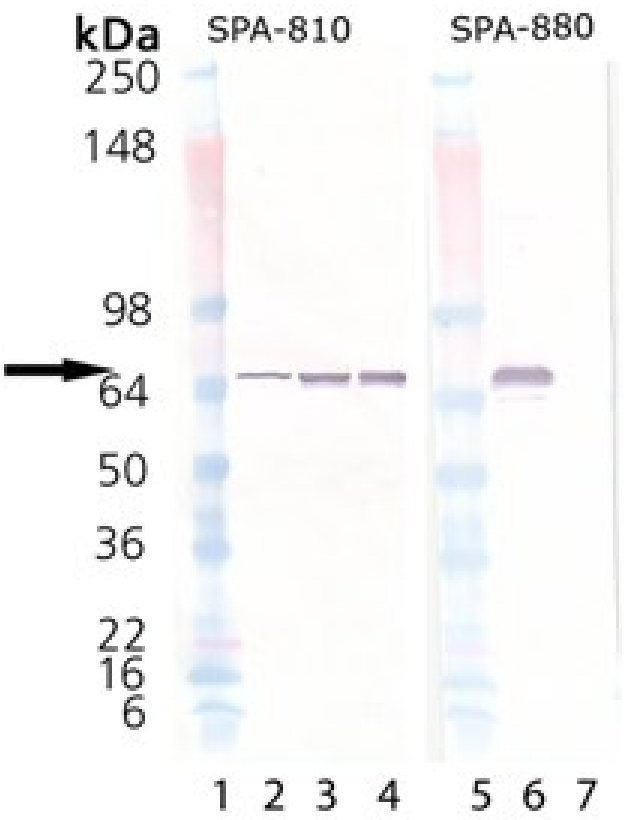
The Hsp70 family of heat shock protiens contains multiple homologs ranging in size from 66-78 kDa, and are the eukaryotic equivalents of the bacterial DnaK. The most studied Hsp70 members include the cytosolic stress-induced Hsp70 (Hsp72), the constitutive cytosolic Hsc70 (Hsp73), and the ER-localized BiP (Grp78). Hsp70 family members contain highly conserved N-terminal ATP-ase and C-terminal protein binding domains. Binding of peptide to Hsp70 is assisted by Hsp40, and stimulates the inherent ATPase activity of Hsp70, facilitating ATP hydrolysis and enhanced peptide binding. Hsp70 nucleotide exchange and substrate binding coordinates the folding of newly synthesized proteins, the re-folding of misfolded or denatured proteins, coordinates trafficking of proteins across cellular membranes, inhibits protein aggregation, and targets the degradation of proteins via the proteasomal pathway.

Citations: 15 View Online »

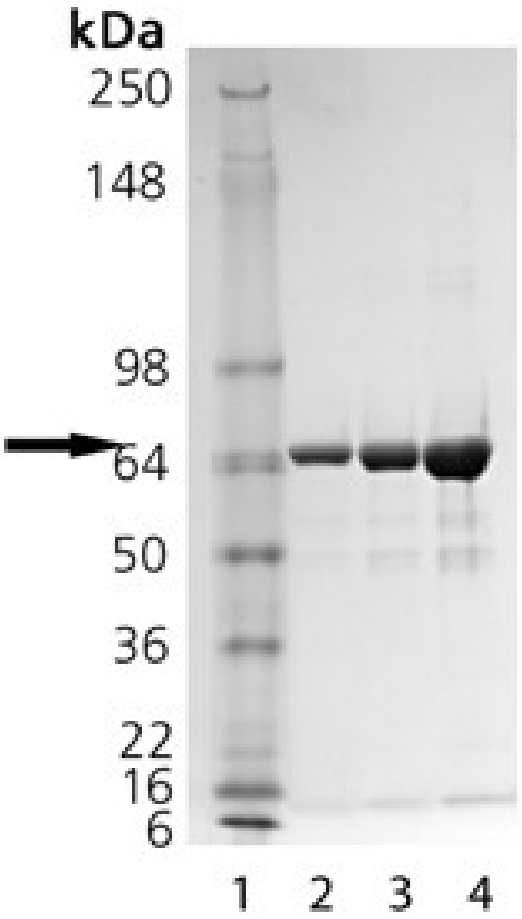
Ordering Information Order Online »

ADI-ESP-555-D	50µg
ADI-ESP-555-F	200µg

Manuals, SDS & CofA View Online »



Western Blot Analysis of HSP70 (low endotoxin) (human), (recombinant): Left blot probed with HSP70 mAb (Prod. No. ADI-SPA-810) – Lane 1: MW Marker, Lane 2: HeLa lysate (Prod. No. ADI-LYC-HL100), Lane 3: Heat-shocked HeLa lysate (Prod. No. ADI-LYC-HL101), Lane 4: HSP70. Right blot probed with DnaK mAb (Prod. No. ADI-SPA-880) – Lane 5: MW Marker, Lane 6: DnaK (Prod. No. ADI-SPP-630), Lane 7: HSP70.



SDS-PAGE analysis of HSP70 (low endotoxin) (human), (recombinant): Lane 1: MW marker, Lane 2: 1µg, Lane 3: 2µg, Lane 4: 5µg HSP70.

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	Heat shock protein 70, HspA1A, HspA1B, HSP72
Application Notes	ATPase activity assay (positive). Western blot control.
Endotoxin Content	<50EU/mg purified protein (LAL test)
Formulation	Liquid. In Dulbecco's PBS.
GenBank ID	M11717
Gene/Protein Identifier	NP_005336.3 (RefSeq), NM_005345 (RefSeq), 3303 (Entrez GeneID), 140550 (OMIM)
MW	~72kDa
Purity	≥90% (SDS-PAGE; Western blot)
Purity Detail	Purified by multi-step chromatography.
Source	Produced in *E. coli*.
UniProt ID	P0DMV8 (HSPA1A), P0DMV9 (HSPA1B)

Last modified: May 29, 2024

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: enzo.com All product names, logos, and brands are the property of their respective owners.