HSP27 (human), (recombinant)

Recombinant human Hsp27 that functions as a small heat shock protein, preventing protein aggregation, supporting refolding with Hsp70, regulating cytoskeletal dynamics, and enhancing cellular stress protection.

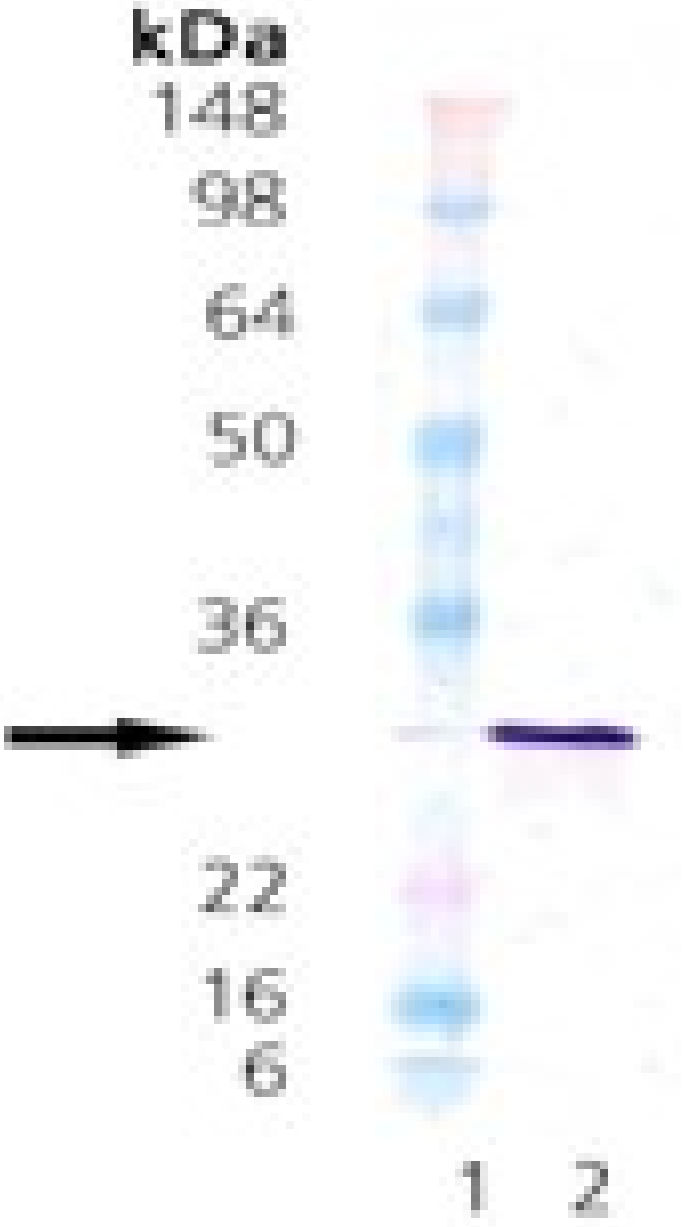
Human Hsp27, mouse Hsp25 and ab-crystallin are part of a diverse family of small heat shock proteins which are produced in all organisms. They function as chaperone-like proteins by binding unfolded polypeptides and preventing uncontrolled protein aggregation. Hsp27 is believed to exist mainly as oligomers of as many as 8-40 Hsp27 protein monomers in cells. Data suggests that the large oligomers of Hsp27 have a chaperone-like activity by serving as a site where unfolded proteins may bind until ATP and Hsp70-dependent refolding can occur. The phosphorylation and oligomerization state of Hsp27 has been suggested to regulate microfilament organization, since only the nonphosphorylated lower molecular weight forms of Hsp27 bind actin barbed ends and inhibit polymerization. Hsp27 is also believed to protect cells by enhancing cellular glutathione levels, as elevated glutathione levels have been measured in cells overexpressing Hsp27. Data from studies using wild-type Hsp27 and mutant forms in which the serine phosphorylation sites were

Citations: 15 View Online »

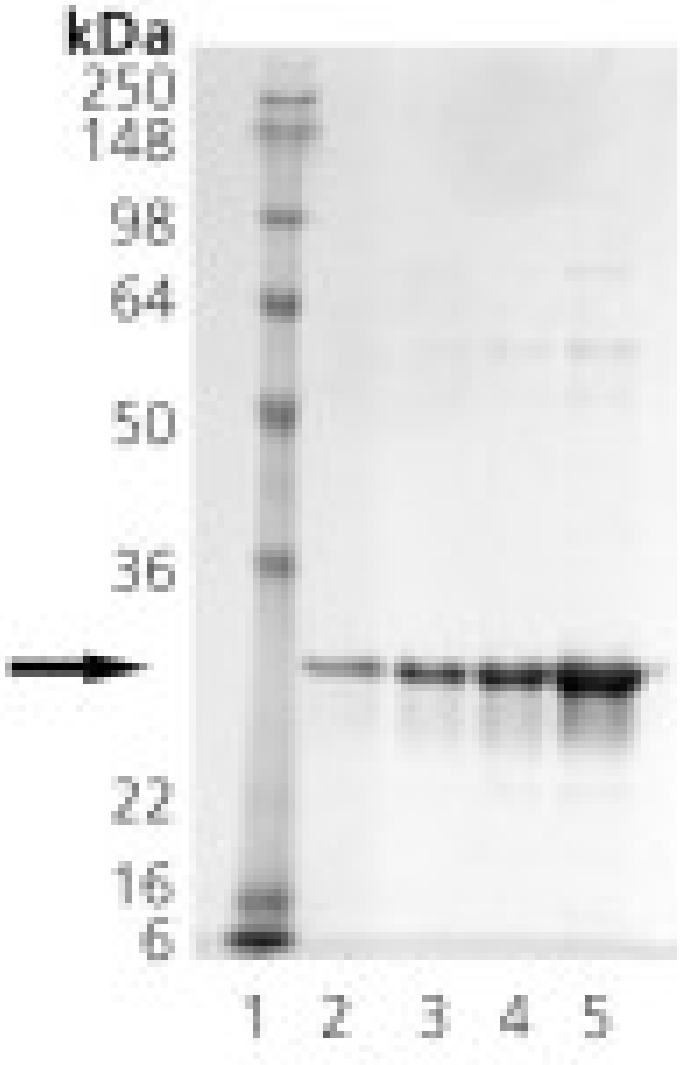
Ordering Information Order Online »

ADI-SPP-715-D	50µg
ADI-SPP-715-F	200µg

Manuals, SDS & CofA View Online »



Western Blot analysis: Lane 1: MWM, Lane 2: HSP27 probed with HSP27 mAb.



SDS-PAGE analysis: Lane 1: MW marker, Lane 2: 0.5µg, Lane 3: 1µg, Lane 4: 2µg, Lane 5: 5µg HSP27 stained with Imperial stain.

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	HspB1, Heat shock protein 27
Application Notes	Western blot control.
Formulation	Liquid. In 20mM TRIS, pH 7.5, containing 10mM sodium chloride, 1mM EDTA, and 1mM DTT.
GenBank ID	L39370
MW	~27kDa
Purity	≥90% (SDS-PAGE; Western blot)
Purity Detail	Purified by multi-step chromatography.
Source	Produced in *E. coli*.
UniProt ID	P04792

Last modified: October 9, 2025

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.