HSP27 (phospho) (human), (recombinant)

Recombinant human phospho-Hsp27 that functions as a small heat shock protein, with phosphorylation-modulated oligomerization, preventing protein aggregation, regulating cytoskeletal dynamics, and providing anti-apoptotic protection.

Hsp27 is one of the most common members of the highly conserved and ubiquitously expressed family of small heat shock proteins (sHSP), which also includes αB-crystallin. It is characterized by a conserved C-terminal a-crystallin domain consisting of two antiparallel β-sheets that promote oligomer formation required for its primary chaperone function as inhibitors of irreversible protein aggregation. Hsp27 oligomerization is modulated by post-translational phosphorylation of Hsp27 at three serine residues, Ser-15, Ser-78, and Ser-82, by a variety of protein kinases including MAPKAPK-3, PKAcα, p70S6K, PKD I, and PKCδ. Hsp27 has been shown to inhibit actin polymerization by binding of unphosphorylated Hsp27 monomers to actin intermediate filaments. Antiapoptotic functions of Hsp27 have also been identified through interactions with DAXX7, activation of AKT, and inhibition of apoptosome formation. Evidence suggests altered expression of Hsp27 is implicated in the pathogenesis of breast, ovarian, and prostate cancer.

Citations: 2 View Online »

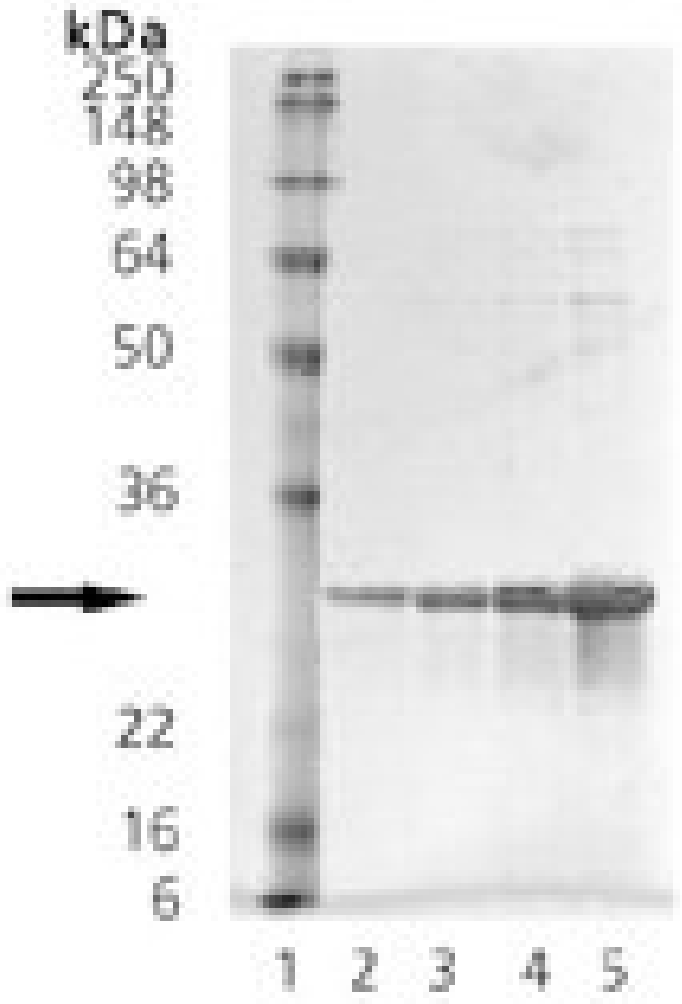
Ordering Information Order Online »

ADI-SPP-716-F	200µg

Manuals, SDS & CofA View Online »



Western Blot analysis: Lane 1: MWM, Lane 2: Hsp27 (phospho) protein, probed with Hsp27 (pSer82) pAb



SDS-PAGE analysis: Lane 1: MW marker, Lane 2: 0.5µg, Lane 3: 1µg, Lane 4: 2µg, Lane 5: 5µg Hsp27 (phospho) protein

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 60mM Tris-HCl, pH 7.5, containing 5mM sodium chloride, 1mM EGTA, 0.5mM EDTA, 15mM DTT, 0.1mM ATP, and 15mM magnesium chloride.
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

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