HSP90β (human), (recombinant)

Recombinant human Hsp90β, a constitutively expressed cytosolic chaperone that stabilizes and folds key signaling proteins, steroid receptors, and kinases, supporting cell cycle control and stress responses in an ATP-dependent manner

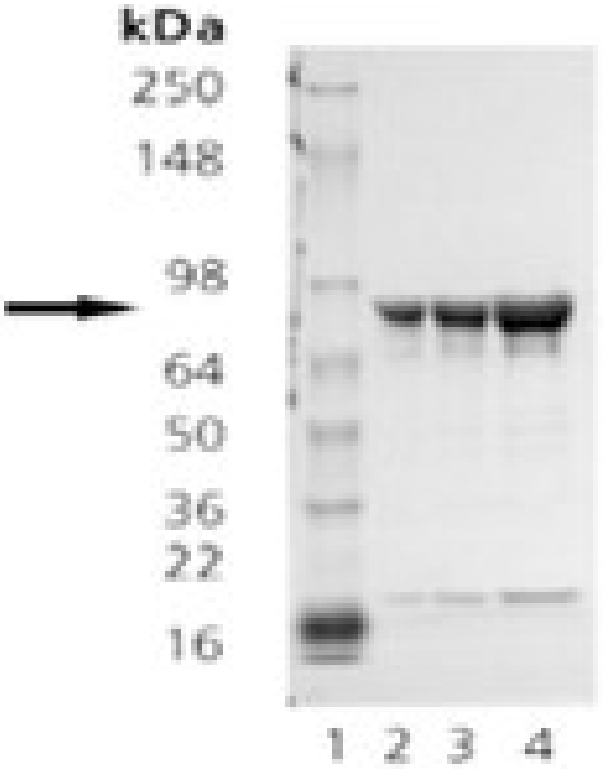
The 90 kDa molecular chaperone family includes 90 kDa heat shock protein HSP90 and 94 kDa glucose-regulated protein Grp94, both major molecular chaperones of the cytosol and the endoplasmic reticulum. Mammalian cells express inducible HSP90a and constitutive HSP90β isoforms that are encoded by separate genes. The amino acid sequences of human and yeast HSP90a are 85% and 90% homologous to those of HSP90β, respectively. All known members of the HSP90 protein family are highly conserved, especially in the N-terminal and C-terminal regions containing independent chaperone sites with different substrate specificity. These ubiquitous and highly conserved proteins account for 1-2% of all cellular proteins in most cells. HSP90 functions as part of the cell's powerful network of chaperones to fight the deleterious consequences of protein unfolding caused by non-physiological conditions. In the absence of stress, however, HSP90 provides a necessary component of such fundamental cellular processes as hormone signaling and cell cycle control by serving as a chaperone for many key signaling molecules including steroid receptors, cell cycle kinases involved in signal transduction, and p53. As many of these client proteins are known oncogenes, Hsp90 inhibitors such as 17-AAG, a geldanamycin analog, have been of benefit in the treatment of many cancers.

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ADI-SPP-777-D	50µg
ADI-SPP-777-F	200µg

Manuals, SDS & CofA View Online »



SDS-PAGE analysis: Lane 1: MW marker, Lane 2: 1µg, Lane 3: 2µg, Lane 4: 5µg HSP90b



Western Blot analysis: Lane 1: MWM, Lane 2: HSP90 beta recombinant protein probed with HSP90 beta, mAb.

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	HSP84, Heat shock protein 90β
Application Notes	Western blot control.
Formulation	Liquid. In 20mM TRIS, pH 7.5, containing 500mM sodium chloride, 5% glycerol, and 1mM DTT.
MW	~90kDa
Purity	≥85% (SDS-PAGE; Western blot)
Purity Detail	Purified by multi-step chromatography.
Source	Produced in *E. coli*.
UniProt ID	P08238

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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

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