HSP90 (human), (native)

Native human Hsp90, a highly conserved cytosolic chaperone that, in cooperation with co-chaperones, stabilizes client proteins including kinases, transcription factors, and hormone receptors, and is essential for ATP-dependent folding and activation.

The Hsp90 family of heat shock proteins represents one of the most abundantly expressed and highly conserved families of cellular chaperones whose expression can be upregulated under conditions of cellular stress, and includes cytoplasmic (Hsp90-alpha/beta), ER (grp94), and mitochondrial (TRAP1) localized members. Structurally, Hsp90 is characterized by an N-terminal ATP-binding domain, a medial substrate-binding domain, and a C-terminal dimerization motif. Hsp90 dimers function in cooperation with cochaperones (e.g. Hsp40, Hsp70, Hop, p23) to stabilize a multitude of client protein substrates, including steroid hormone receptors, protein kinases, and transcription factors. The essential binding and hydrolysis of ATP by Hsp90 is inhibited by ansamycin drugs (e.g. geldanamycin, 17-AAG) which occupy the N-terminal Hsp90 nucleotide-binding pocket. Many Hsp90 client proteins such as erbB2/Her-2, c-raf, bcr-abl, p53, and hTERT, are members of well characterized oncogenic pathways, making Hsp90 inhibitors useful anticancer agents.

Citations: 13 View Online »

Ordering Information

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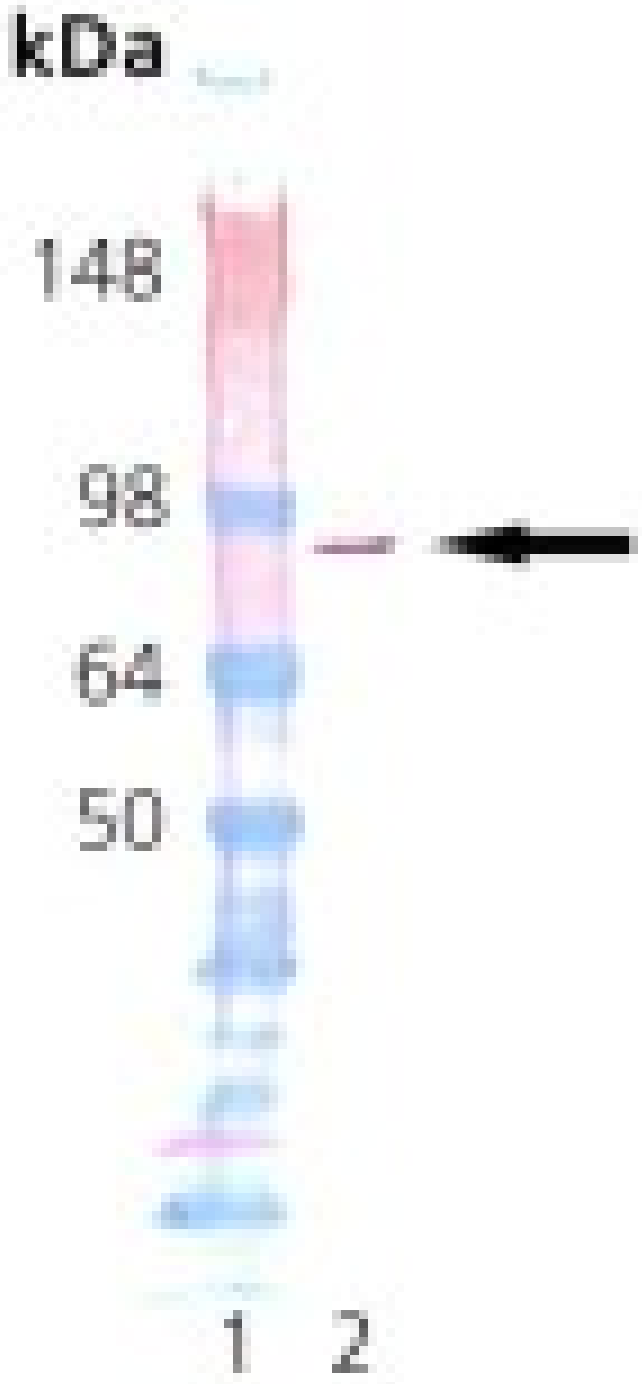
ADI-SPP-770-D	50µg
ADI-SPP-770-F	200µg

Manuals, SDS & CofA

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SDS-PAGE analysis: Lane 1: MW marker, Lane 2: 1.0µg of Natural Source Human HSP90 Protein.



Western Blot analysis: Lane 1: MWM, Lane 2: Natural Source Human HSP90 Protein.

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	HSP86, Heat shock protein 90
Application Notes	Western blot control.
Formulation	Liquid. In 50mM TRIS-HCl, pH 7.5, containing 1.0mM DTT and 100mM sodium chloride.
MW	~90kDa
Purity	≥90% (SDS-PAGE; Western blot)
Purity Detail	Purified by multi-step chromatography.
Source	Produced in HeLa cells.
UniProt ID	P07900 (HSP90α), P08238 (HSP90β)

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