HSP90α (human), (recombinant)

Recombinant human Hsp90α, a cytosolic chaperone that cooperates with co-chaperones to stabilize and fold client proteins including kinases, transcription factors, and steroid hormone receptors in an ATP-dependent manner.

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.

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Ordering Information

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ADI-SPP-776-D	50µg
ADI-SPP-776-F	200µg

Manuals, SDS & CofA

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Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	HSP86, Heat shock protein 90α
Application Notes	Western blot control.
Formulation	Liquid. In Dulbecco's PBS containing 2.7mM potassium chloride, 1.5mM potassium phosphate, 137mM sodium chloride, 8.1mM sodium phosphate, and 10% glycerol.
MW	~90kDa
Purity	≥90% (SDS-PAGE; Western blot)
Purity Detail	Purified by multi-step chromatography.
Source	Produced in *E. coli*.
UniProt ID	P07900

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