Native Hsp90 Protein

Cat. No. HSP90AA1-14H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HeLa
Description	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.
Form	Liquid. In 50mM TRIS-HCl, pH 7.5, containing 1.0mM DTT and 100mM sodium chloride.
Molecular Mass	~90kDa

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Purity	≥90% (SDS-PAGE; Western blot)
Applications	ELISA, WBAntigen microarray
Usage	For Research Use Only. Not for use in diagnostic procedures.

GENE INFORMATION

UniProt ID	P07900 (HSP90α), P08238 (HSP90β)

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