

Recombinant Human HSP90AA1, His-tagged

Cat. No. HSP90AA1-27844TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Hsp90 alpha with C-terminal His tag, 85.5 kDa.
Species	Human
Source	E.coli
Description	HSP90 proteins are highly conserved molecular chaperones that have key roles in signal transduction, protein folding, protein degradation, and morphologic evolution. HSP90 proteins normally associate with other cochaperones and play important roles in folding newly synthesized proteins or stabilizing and refolding denatured proteins after stress. There are 2 major cytosolic HSP90 proteins, HSP90AA1, an inducible form, and HSP90AB1 (MIM 140572), a constitutive form. Other HSP90 proteins are found in endoplasmic reticulum (HSP90B1; MIM 191175) and mitochondria (TRAP1; MIM 606219) (Chen et al.
Conjugation	HIS
Biological activity	Specific Activity : Kd of 8 nM. Assay conditions : 95 ul reaction mix (20 mM HEPES pH7.3, 50 mM KCl, 5 mM MgCl ₂ , 20 mM Na ₂ MoO ₄ , 0.01% Triton X- 100, 100 ug/ml bovine serum albumin, 2 mM DTT, 0-30 nM Hsp90alpha) + 5 ul FITCgeldanamycin, incubate for 4 hrs a
Form	Liquid
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.05% Tween 20, 400mM Sodium

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	chloride, 3mM DTT, 25mM Tris HCl, pH 7.5
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the heat shock protein 90 family.
Full Length	Full L.
GENE INFORMATION	
Gene Name	HSP90AA1 heat shock protein 90kDa alpha (cytosolic), class A member 1 [Homo sapiens]
Official Symbol	HSP90AA1
Synonyms	HSP90AA1; heat shock protein 90kDa alpha (cytosolic), class A member 1; heat shock 90kD protein 1, alpha , heat shock 90kDa protein 1, alpha , HSPC1, HSPCA; heat shock protein HSP 90-alpha; FLJ31884; Hsp89; Hsp90; HSP90N;
Gene ID	3320
mRNA Refseq	NM_001017963
Protein Refseq	NP_001017963
MIM	140571
Uniprot ID	P07900
Chromosome Location	14q32.33

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Pathway	Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Axon guidance, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem;
Function	ATP binding; ATP binding; ATPase activity; TPR domain binding; TPR domain binding;

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