

Recombinant Human HSP90AA1 Protein (Glu25-Gly697), GST tagged

Cat. No. HSP90AA1-2642H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HSP90AA1 (Glu25-Gly697) protein fused with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Glu25-Gly697
Description	Heat shock protein 9 (9 kDa heat-shock protein, HSP9) is a molecular chaperone involved in the trafficking of proteins in the cell. It is a remarkably versatile protein involved in the stress response and in normal homoeostatic control mechanisms. HSP9 interacts with 'client proteins', including protein kinases, transcription factors and others, and either facilitates their stabilization and activation or directs them for proteasomal degradation. By this means, HSP9 displays a multifaceted ability to influence signal transduction, chromatin remodelling and epigenetic regulation, development and morphological evolution. HSP9 operates as a dimer in a conformational cycle driven by ATP binding and hydrolysis at the N-terminus. Disruption of HSP9 leads to client protein degradation and often cell death. Under stressful conditions, HSP9 stabilizes its client proteins and provides protection to the cell against cellular stressors such as in cancer cells. Especially, several oncoproteins act as HSP9 client proteins and tumor cells require higher HSP9 activity than normal cells to maintain their malignancy. For this reason, Hsp9 has emerged as a promising

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	target for anti-cancer drug development.
Molecular Mass	106.22 kDa
Purity	>90 % as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	HSP90AA1 heat shock protein 90kDa alpha (cytosolic), class A member 1 [Homo sapiens (human)]
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; HSP 86; heat shock 86 kDa; heat shock 90kD protein 1, alpha; heat shock 90kDa protein 1, alpha; renal carcinoma antigen NY-REN-38; heat shock 90kD protein, alpha-like 4; heat

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shock 90kD protein 1, alpha-like 4; HSPN; LAP2; HSP86; HSPC1; HSPCA; HSP89A; HSP90A; HSPCAL1; HSPCAL4;

Gene ID [3320](#)

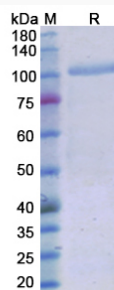
mRNA Refseq [NM_001017963](#)

Protein Refseq [NP_001017963](#)

MIM [140571](#)

UniProt ID [P07900](#)

SDS-PAGE



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