

# Recombinant Human HSP90AA1 protein, His-tagged

**Cat. No.** HSP90AA1-02H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant partial human HSP90AA1 was expressed in E. coli using an N-terminal 6xHis-tagged.                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 233-291aa                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | The protein encoded by this gene is an inducible molecular chaperone that functions as a homodimer. The encoded protein aids in the proper folding of specific target proteins by use of an ATPase activity that is modulated by co-chaperones. Two transcript variants encoding different isoforms have been found for this gene. |
| <b>Form</b>             | Liquid or Lyophilized powder                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 11.2 kDa                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | DEAEEKEDKEEEEKEKEEKESEDKPEIEDVGSDEEEEKKDGDGKKKKKKIKEYIDQEE<br>LN                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | Greater than 85% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                        |
| <b>Notes</b>            | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                                       |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | Store at -20 centigrade/-80 centigrade upon receipt, aliquoting is necessary for multiple use. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                        |
| <b>Expiry</b>         | <p>The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.</p> <p>Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.</p>                                                        |
| <b>Storage Buffer</b> | <p>If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.</p> <p>If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.</p>                                                                                                                                         |
| <b>Reconstitution</b> | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 centigrade/-80 centigrade. Our default final concentration of glycerol is 50%. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HSP90AA1 heat shock protein 90 alpha family class A member 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                    |
| <b>Official Symbol</b> | HSP90AA1                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>        | Heat shock 86 kDa; Heat shock protein 90kDa alpha cytosolic class A member 1; Heat shock protein 90kDa alpha cytosolic class B member 1; Heat shock protein HSP 90 alpha; Heat shock protein HSP 90 beta; Heat shock protein HSP 90-alpha; HS90A_HUMAN; HSP 84; HSP 86; Hsp 90; HSP86; HSP90A; HSP90AA1; |

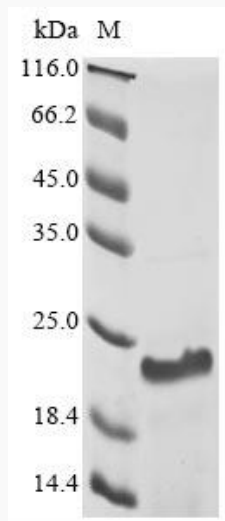
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HSP90AB1; HSP90B; HSPC1; HSPC2; HSPCAL1; HSPCAL4; Renal carcinoma antigen NY-REN-38.

|                       |              |
|-----------------------|--------------|
| <b>Gene ID</b>        | 3320         |
| <b>mRNA Refseq</b>    | NM_001017963 |
| <b>Protein Refseq</b> | NP_001017963 |
| <b>MIM</b>            | 140571       |
| <b>UniProt ID</b>     | P07900       |



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.