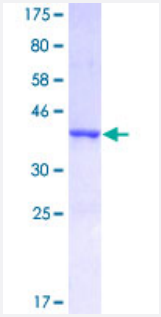
Full-Length

# HSPE1 (Human) Recombinant Protein (P01)

Catalog # H00003336-P01 Size 10 ug, 25 ug

## Applications




## Specification

| | |
|---|---|
| **Product Description** | Human HSPE1 full-length ORF ( AAH23518, 1 a.a. - 102 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Sequence** | MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGKGGEIQPVS VKVGDKVLLPEYGGTKVVLDDKDYFLFRDGDILGKYVD |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 36.96 |
| **Preparation Method** | *in vitro* wheat germ expression system |
| **Purification** | Glutathione Sepharose 4 Fast Flow |
| **Quality Control Testing** | 12.5% SDS-PAGE Stained with Coomassie Blue. |
| **Storage Buffer** | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| **Storage Instruction** | Store at -80°C. Aliquot to avoid repeated freezing and thawing. |
| **Note** | Best use within three months from the date of receipt of this protein. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — HSPE1

| | |
|---|---|
| **Entrez GeneID** | 3336 |
| **GeneBank Accession#** | BC023518 |
| **Protein Accession#** | AAH23518 |
| **Gene Name** | HSPE1 |
| **Gene Alias** | CPN10, GROES, HSP10 |
| **Gene Description** | heat shock 10kDa protein 1 (chaperonin 10) |
| **Omim ID** | 600141 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a major heat shock protein which functions as a chaperonin. Its structure consi sts of a heptameric ring which binds to another heat shock protein in order to form a symmetric, fu nctional heterodimer which enhances protein folding in an ATP-dependent manner. This gene and its co-chaperonin, HSPD1, are arranged in a head-to-head orientation on chromosome 2. [provid ed by RefSeq |
| **Other Designations** | chaperonin 10\|heat shock 10kD protein 1 (chaperonin 10)\|heat shock 10kDa protein 1 |

## Publication Reference

- Identification of the molecular chaperone, heat shock protein 1 (Chaperonin 10), in the reproductive tract and in capacitating spermatozoa in the male mouse.

  Walsh A, Whelan D, Bielanowicz A, Skinner B, Aitken RJ, O'Bryan MK, Nixon B.

  Biology of Reproduction 2008 Feb; 78(6):983.

  Application: Func, Mouse, Mouse oocytes

## Disease

- Ovarian cancer
- Ovarian Neoplasms