

## Recombinant Human HSPE1, His-tagged

**Cat. No.** HSPE1-150H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human HSPE1 was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | This gene encodes a major heat shock protein which functions as a chaperonin. Its structure consists of a heptameric ring which binds to another heat shock protein in order to form a symmetric, functional 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. Naturally occurring read-through transcription occurs between this locus and the neighboring locus MOBKL3. |
| <b>Appearance</b>       | Liquid, clear solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Form</b>             | Supplied as a 0.2 µ filtered solution in PBS (pH 7.4).                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Endotoxin</b>        | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Applications</b>     | ELISA, Western blotting, Dot Blotting, Immunogen, Protein Array, Function Assay, etc.                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Usage</b>            | This product is furnished for LABORATORY RESEARCH USE ONLY. Not for                                                                                                                                                                                                                                                                                                                                                                                                                                |

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diagnostic or therapeutic use.

**Storage**

Upon arrival, the protein may be stored for two weeks at 2 to 8 °C. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA) and store at -20 °C or -80 °C in appropriate aliquots. Avoid repeated freeze-thaw cycles.

**Concentration**

Lot specific (see the label on the vial).

## GENE INFORMATION

**Gene Name**

HSPE1 heat shock 10kDa protein 1 (chaperonin 10) [ Homo sapiens(human) ]

**Official Symbol**

HSPE1

**Synonyms**

HSPE1; EPF; CPN10; GROES; HSP10; heat shock 10kDa protein 1 (chaperonin 10); 10 kDa heat shock protein, mitochondrial; chaperonin 10; 10 kDa chaperonin; early-pregnancy factor; heat shock 10kD protein 1 (chaperonin 10)

**Gene ID**

3336

**mRNA Refseq**

NM\_002157

**Protein Refseq**

NP\_002148

**MIM**

600141

**UniProt ID**

P61604

**Chromosome Location**

2q33.1

**Function**

ATP binding; chaperone binding; protein binding

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