

## Recombinant Human HSPE1 Protein

**Cat. No.** HSPE1-042H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Recombinant human HSPE1 protein without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <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>Form</b>             | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 10 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGK<br>GGEIQPVSVKVGDKVLLPEYGGTKVVLDDKDYFLFRDGDILGKYVD                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>           | > 98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>     | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| <b>Stability</b>      | This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.                                                                      |
| <b>Storage</b>        | 4°C                                                                                                                                                                                                                                                                         |
| <b>Concentration</b>  | 1 mg/mL                                                                                                                                                                                                                                                                     |
| <b>Storage Buffer</b> | Tris (pH 8). Sterile-filtered colorless solution.                                                                                                                                                                                                                           |
| <b>Reconstitution</b> | Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HSPE1 heat shock protein family E (Hsp10) member 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | HSPE1                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>        | HSPE1; heat shock protein family E (Hsp10) member 1; EPF; CPN10; GROES; HSP10; 10 kDa heat shock protein, mitochondrial; Names; 10 kDa chaperonin; chaperonin 10; early-pregnancy factor; epididymis secretory sperm binding protein; heat shock 10kD protein 1 (chaperonin 10); heat shock 10kDa protein 1 |
| <b>Gene ID</b>         | 3336                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_002157                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_002148                                                                                                                                                                                                                                                                                                   |

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| MIM | 600141 |
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| UniProt ID | P61604 |
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