

# Recombinant Full Length Human HSPE1 Protein, GST-tagged

**Cat. No.** HSPE1-5653HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Human HSPE1 full-length ORF ( AAH23518, 1 a.a. - 102 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 102 amino acids                                                                                                                                                                                                                                                                                                                                                                                             |
| <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. [provided by RefSeq |
| <b>Molecular Mass</b>   | 36.96 kDa                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGK<br>GGEIQPVSVKVGDKVLLPEYGGTKVVLDDKDYFLFRDGDILGKYVD                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                           |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                      |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                    |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                    |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                             |
| <b>Gene Name</b>        | HSPE1 heat shock 10kDa protein 1 (chaperonin 10) [ Homo sapiens ]                                                                                                                                                           |
| <b>Official Symbol</b>  | HSPE1                                                                                                                                                                                                                       |
| <b>Synonyms</b>         | HSPE1; heat shock 10kDa protein 1 (chaperonin 10); heat shock 10kD protein 1 (chaperonin 10); 10 kDa heat shock protein, mitochondrial; CPN10; GROES; chaperonin 10; 10 kDa chaperonin; early-pregnancy factor; EPF; HSP10; |
| <b>Gene ID</b>          | 3336                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_002157                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>   | NP_002148                                                                                                                                                                                                                   |
| <b>MIM</b>              | 600141                                                                                                                                                                                                                      |
| <b>UniProt ID</b>       | P61604                                                                                                                                                                                                                      |

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