

## Recombinant Human HspH1 Protein, N-His-tagged

**Cat. No.** HspH1-051H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human HspH1 protein with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 858                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes a member of the heat shock protein 70 family of proteins. The encoded protein functions as a nucleotide exchange factor for the molecular chaperone heat shock cognate 71 kDa protein (Hsc70). In addition, this protein plays a distinct but related role as a holdase that inhibits the aggregation of misfolded proteins, including the cystic fibrosis transmembrane conductance regulator (CFTR) protein. Elevated expression of this protein has been observed in numerous human cancers. |
| <b>Form</b>             | Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 100 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQIT<br>HANNTVSNFKRFHGRAFNDPFIQKEKENLSYDLVPLKNGGVGKVMYMGEEHLFSV<br>EQITAMLLTKLKETAENSLKKPVTDCVISVPSFFTD AERRSVLDAAQIVGLNCLRLMN<br>DMTAVALNYGIYKQDLPSLDEKPRIVVFVDMGHSAFQVSACAFNKGKLVLTAFDP<br>FLGGKNFDEKLVEHFCAEFKTKYKLDASKIRALLRLYQECEKLLKMSSNSTDLPLN                                                                                                                                                                                                       |

 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

IECFMNDKDVSGKMNRSQFEELCAELLQKIEVPLYSLLEQTHLKVEDVSAVEIVGGAT  
 RIPAVKERIAKFFGKDISTTLNADEAVARGCALQCAILSPAFAKVRFSVTDAVPFPISLI  
 WNHDSEDETEGVHEVFSRNHAAPFSKVLTFLLRRGPFELEAFYSDPQGVYPYPEAKIGR  
 FVVQNVSQAQKDGEKSRVKVKVRVNTHGIFTISTASMVEKVPTEENEMSSEADMECL  
 NQRPPENPDTDKNVQQDNSEAGTQPQVQTDAQQTSQSPPSELTSEENKIPDADK  
 ANEKKVDQPPEAKKPKIKVVNVELPIEANLVWQLGKDLLNMYIETEGKMIMQDKLEK  
 ERNDAKNAVEEYVYEFDRDKLCGPYEKFICEQDHQNFRLLTETEDWLYEEGEDQAK  
 QAYVDKLEELMKIGTPVKVRFQEAERPDKMFEELGQRLQHYAKIAADFRNKDEKYN  
 HIDESEMKKVEKSVNEVMEWMNNVMNAQAKKSLDQDPVVRAQEIKTKIKELNNTCE  
 PVVTQPKPKIESPKLERTPNGPNIDKKEEDLEDKNNFGAEPHPHQNGECYPNEKNSV  
 NMDLD

|                       |                                                                                                                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 90%                                                                                                                                                                                                                                                                                    |
| <b>Applications</b>   | WB; ELISA; FACS; FC                                                                                                                                                                                                                                                                      |
| <b>Stability</b>      | This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).<br>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-HCl (pH 8). Sterile-filtered colorless solution.                                                                                                                                                                                                                                    |
| <b>Reconstitution</b> | Reconstitute in sterile distilled H <sub>2</sub> O 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. |

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## GENE INFORMATION

|                 |                                                                                                                                                                                                                                                                          |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | HSPH1 heat shock 105kDa/110kDa protein 1 [ Homo sapiens (human) ]                                                                                                                                                                                                        |
| Official Symbol | HspH1                                                                                                                                                                                                                                                                    |
| Synonyms        | HSPH1; heat shock 105kDa/110kDa protein 1; heat shock protein 105 kDa; HSP105A; HSP105B; KIAA0201; NY CO 25; antigen NY-CO-25; heat shock 105kD beta; heat shock 105kD alpha; heat shock 110 kDa protein; heat shock 105kDa protein 1; HSP105; NY-CO-25; DKFZp686M05240; |
| Gene ID         | 10808                                                                                                                                                                                                                                                                    |
| mRNA Refseq     | NM_006644                                                                                                                                                                                                                                                                |
| Protein Refseq  | NP_006635                                                                                                                                                                                                                                                                |
| MIM             | 610703                                                                                                                                                                                                                                                                   |
| UniProt ID      | Q92598                                                                                                                                                                                                                                                                   |

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