

## HSP105alpha recombinant protein

HSP105alpha 1-858aa, Human, His tag, E Coli

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA48480</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

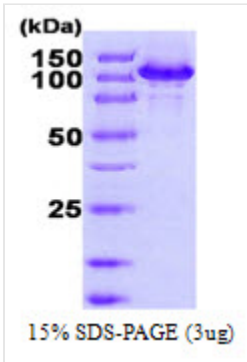
### PRODUCT SYNONYMS

HSP105alpha; HSP105alpha 1-858aa; Human; His tag; E Coli; Heat shock 105kDa/110kDa protein 1; HSPH1; HSP105-alpha; Heat shock 105kDa/110kDa protein 1 Antigen NY CO 25; DKFZp686M05240; Heat shock 105kD; Heat shock 105kD alpha; Heat shock 105kD beta; Heat shock 105kDa protein; Heat shock 105kDa protein 1; Heat shock 110kDa protein; Heat shock protein 105 kDa; HSP105A; HSP105B; HSP110; HSPH 1; KIAA0201; NY CO 25.; HSP105alpha recombinant protein

### PRODUCT SPECIFICATIONS

|                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Host                                                           | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity/Purification                                            | > 90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Form/Format                                                    | Liquid in 20 mM Tris-HCl buffer pH 8.0, 50 mM NaCl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Concentration                                                  | 1 mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sequence                                                       | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSSV GLDVGSQSCY IAVARAGGIE TIANEFSDRC<br>TPSVISFGSK NRTIGVAAKN QQITHANNTV SNFKRFHGRA FNDPFIQKEK ENLSYDLVPL KNGGVGKVM<br>YMGEHLFSV EQITAMLLTK LKETAENSLK KPVTDVCISV PSFFTDERR SVLDAAQIVG LNCLRLMNDM<br>TAVALNYGIY QDPLSLDEK PRIVVFVDMG HSAFQVSACA FNKGKLVLG TAFDPFLGGK NFDEKLVEHF<br>CAEFKTKYKL DAKSKIRALL RLYQECEKLK KLMSSNSTDL PLNIECFMND KDVSGKMNRS QFEELCAELL<br>QKIEVPLYSL LEQTHLKVED VSAVEIVGGA TRIPAVKERI AKFFGKDIST TLNADEAVAR GCALQCAILS<br>PAFKVREFSV TDAVPFISL IWNHDSDETE GVHEVFSRNH AAPFSKVLTF LRRGPFELEA FYSDPQGVY<br>PEAKIGRFVV QNVSAQKDGE KSRVKVKVRV NTHGIFTIST ASMVEKVPT EENMSSEADM ECLNQRPPEN<br>PDTDKNVQQD NSEAGTQPQV QTDAQQTSQS PPSELTSEE NKIPADKAN EKKVDQPPEA KKP KIKVNV<br>ELPIEANLVW QLKGDLLNMY IETEGKMIMQ DKLEKERND KNAVEEYVYE FRDKLCGPYE KFICEQDHQN<br>FLRLLTETED WLYEEGEDQA KQAYVDKLEE LMKIGTPVKV RFQEAERPK MFEELGQRLQ HYAKIAADFR<br>NKDEKYNHID ESEMKKVEKS VNEVMEWMNN VMNAQAKSL DQDPVVRAQE IKTKIKELNN TCEPVVTQPK<br>PKIESPKLER TPNGPNIDKK EEDLEDKNNF GAEPHONGE CYPNEKNSVN MDLD |
| Sequence Length                                                | 858                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for<br>HSP105alpha recombinant protein | SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tag Information                                                | His-tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Domain                                                         | 1-858aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Preparation and Storage                                        | Can be stored at 2 degree C to 8 degree C for 1 week.<br>For long term storage, aliquot and store at -20 degree C to -80 degree C.<br>Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

IMAGES



SDS-PAGE  
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Related Product Information for HSP105alpha recombinant protein | Hsp105 is a mammalian member of the HSP105/110 family, a diverged subgroup of the HSP70 family. HSP105 exists as two isoforms, alpha and beta. Hsp105 alpha associates with Hsp70/Hsc70 as complexes in vivo and regulates the chaperone activity of Hsp70/Hsc70 negatively in vitro and in vivo. Recombinant His tagged HSP105 alpha was expressed in E Coli and purified by using conventional chromatography techniques. |
| Product Categories/Family for HSP105alpha recombinant protein   | Heat Shock Proteins                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                                      | Yamagishi N., et al. (2006) Exp Cell Res. 312 (17):3215-23.; Wang XY., et al. (2001) J Immunol. 166 (1):490-7.                                                                                                                                                                                                                                                                                                              |

NCBI AND UNIPROT INFORMATION

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| NCBI GI #                        | 42544159                                               |
| NCBI GeneID                      | 10808                                                  |
| NCBI Accession #                 | NP_006635                                              |
| NCBI GenBank Nucleotide #        | NM_006644.3                                            |
| UniProt Accession #              | Q92598; O95739; Q5TBM6; Q5TBM7; Q5TBM8; Q9UPC4; B4DYH1 |
| Molecular Weight                 | 100.9kDa (894aa)                                       |
| NCBI Official Full Name          | heat shock protein 105 kDa isoform 1                   |
| NCBI Official Synonym Full Names | heat shock protein family H (Hsp110) member 1          |
| NCBI Official Symbol             | HSPH1                                                  |
| NCBI Official Synonym Symbols    | HSP105; HSP105A; HSP105B; NY-CO-25                     |
| NCBI Protein Information         | heat shock protein 105 kDa                             |
| UniProt Protein Name             | Heat shock protein 105 kDa                             |
| UniProt Gene Name                | HSPH1                                                  |
| UniProt Synonym Gene Names       | HSP105; HSP110; KIAA0201                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.