

# Recombinant human HSPH1 protein

Catalog Number: HSP0803

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-858aa

### UniProt No.

Q92598

### NCBI Accession No.

NP\_006635

### Alternative Names

Heat shock 105kDa/110kDa protein 1, HSPH1, Heat shock 105kDa/110kDa protein 1, HSP105alpha, 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.

## PRODUCT SPECIFICATION

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### Molecular Weight

100.9 kDa (894aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50mM NaCl

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

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

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alpha was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

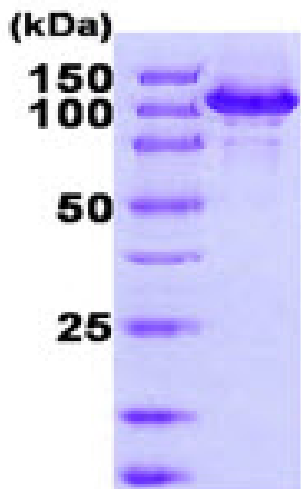
MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSMVSV GLDVGSQSCY IAVARAGGIE TIANEFSDRC  
TPSVISFGSK NRTIGVAAKN QQITHANNTV SNFKRFHGRA FNDPFIQKEK ENLSYDLVPL KNGGVGIVKM YMGEEHLFSV  
EQITAMLLTK LKETAENSLK KPVTDCVISV PSFFTDAERR SVLDAAQIVG LNCLRLMNDM TAVALNYGIY KQDLPSLDEK  
PRIVVFVDMG HSAFQVSACA FNKGKLVKLG TAFDPFLGGK NFDEKLVEHF CAEFKTKYKL DAKSKIRALL RLYQECEK  
KLMSSNSTDL PLNIECFMND KDVSGKMNRS QFEELCAELL QKIEVPLYSL LEQTHLKVED VSAVEIVGGA TRIPAVKERI  
AKFFGKDIST TLNADEAVAR GCALQCAILS PAFKVREFSV TDAVPFISL IWNHDSDETE GVHEVFSRNH AAPFSKVLTF  
LRRGPFLEA FYSDPQGVVY PEAKIGRFVQ QNVSAQKDGK KSRVKVKVRV NTHGIFTIST ASMVEKVPT EENMSSEADM  
ECLNQRPPEN PDTDKNVQQD NSEAGTQPVV QTDAQQTSQS PPSPELTSEE NKIPDADKAN EKKVDQPPEA KKP  
KIKVVNV ELPIEANLVW QLGKDLLNMY IETEGKMIQ DKLEKERND KNAVEEYVYE FRDKLCGPYE KFICEQDHQ  
N FLRLLTETED WLYEEGEDQA KQAYVDKLEE LMKIGTPVKV RFQEAERPK MFEELGQRLQ HYAKIAADFR NKDEKYNHID  
ESEMKKVEKS VNEVMWMMN VMNAQAKKSL DQDPVVRAQE IKTKIKELNN TCEPVVTQPK PKIESPKLER TPNGPNIDKK  
EEDLEDKNNF GAEPHQNGE CYPNEKNSVN MDLD

## General References

Yamagishi N., et al. (2006) *Exp Cell Res.* 312(17):3215-23.  
Wang XY., et al. (2001) *J Immunol.* 166(1):490-7.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)