# Recombinant human HSPH1 protein

Catalog Number: HSP0803

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-858aa

**UniProt No.**
Q92598

**NCBI Accession No.**
NP_006635.2

**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

**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

**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

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

**Amino acid Sequence**

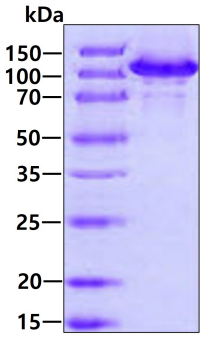
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MSVV GLDVGSQSCY IAVARAGGIE TIANEFSDRC TPSVISFGSK NRTIGVAAKN QQITHANNTV SNFKRFHGRA FNDPFIQKEK ENLSYDLVPL KNGGVGIKVM YMGEEHLFSV EQITAMLLTK LKETAENSLK KPVTDCVISV PSFFTDAERR SVLDAAQIVG LNCLRLMNDM TAVALNYGIY KQDLPSLDEK PRIVVFVDMG HSAFQVSACA FNKGKLKVLG TAFDPFLGGK NFDEKLVEHF CAEFKTKYKL DAKSKIRALL RLYQECEKLK KLMSSNSTDL PLNIECFMND KDVSGKMNRS QFEELCAELL QKIEVPLYSL LEQTHLKVED VSAVEIVGGA TRIPAVKERI AKFFGKDIST TLNADEAVAR GCALQCAILS PAFKVREFSV TDAVPFPISL IWNHDSEDTE GVHEVFSRNH AAPFSKVLTF LRRGPFELEA FYSDPQGVPY PEAKIGRFVV QNVSAQKDGE KSRVKVKVRV NTHGIFTIST ASMVEKVPTE ENEMSSEADM ECLNQRPPEN PDTDKNVQQD NSEAGTQPQV QTDAQQTSQS PPSPELTSEE NKIPDADKAN EKKVDQPPEA KKPKIKVVNV ELPIEANLVW QLGKDLLNMY IETEGKMIMQ DKLEKERNDA KNAVEEYVYE FRDKLCGPYE KFICEQDHQN FLRLLTETED WLYEEGEDQA KQAYVDKLEE LMKIGTPVKV RFQEAEERPK MFEELGQRLQ HYAKIAADFR NKDEKYNHID ESEMKKVEKS VNEVMEWMNN VMNAQAKKSL DQDPVVRAQE IKTKIKELNN TCEPVVTQPK PKIESPKLER TPNGPNIDKK EEDLEDKNNF GAEPPHQNGE 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.