

## 32-5325: Recombinant Human Heat Shock Protein 105

**Alternative Name :** HSPH1, Heat Shock protein 105kDa, 110kDa protein 1, Heat shock 110 kDa protein, HSP110, HSP105A, Antigen NY-CO-25, HSP105, HSP105A, HSP105B, KIAA0201, NY-CO-25, DKFZp686M05240.

### Description

Source : Escherichia Coli. Recombinant HSPH1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 894 amino acids and having a molecular mass of 100.9kDa. HSP105 Alpha is fused with a 36 a.a. His tag and purified by conventional chromatography techniques. HSPH1 analysis is used as an indicator and as a diagnostic aid in problematic lesions. HSPH1 chaperones the responses to endoplasmic reticulum (ER) stress during its interactions with GRP78 and GSK3, and without HSP105 cell death following ER stress proceeds by a non-caspase-3-dependent process. HSPH1 is highly expressed in a variety of human tumors. HSPH1 is a mammalian member of the HSP105/110 family, a diverged subgroup of the HSP70 family. HSP105 has 2 isoforms, alpha and beta. Hsp105a associates with Hsp70/Hsc70 as complexes in vivo and regulates the chaperone activity of Hsp70/Hsc70 negatively in vitro and in vivo.

### Product Info

**Amount :** 25 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** The HSP105 protein solution contains 20mM Tris-HCl, pH-8 and 50mM NaCl.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGMSV VGLDVGSQSCY IAVARAGGIE  
TIANEFSDRC TPSVISFGSK NRTIGVAAKN QQITHANNTV SNFKRFHGRA FNDPFIQKEK  
ENLSYDLVPL KNGGVIKVM YMGEHLFSV EQITAMLLTK LKETAENSLK KPVTDCVISV  
PSFFTDAERR SVLDAAQIVG LNCLRLMNDM TAVALNYGIY KQDLPSLDEK PRIVVFVDMG  
HSAFQVSACA FNKGKLVLG TAFDPFLGGK NFDEKLVEHF CAEFKTKYKL DAKSKIRALL  
RLYQECEK KLMSSNSTDL PLNIECFMND KDVSGKMNRS QFEELCAELL QKIEVPLYSL  
LEQTHLKVED VSAVEIVGGA TRIPAVKERI AKFFGKDIST TLNADEAVAR GCALQCAILS  
PAFKVREFSV TDAVPFPISL IWNHDS EDTE GVHEVFSRNH AAPFSKVLTF LRRGPFLEA  
FYSDPQGV PY PEAKIGRFVV QNVSAQKDGE KSRVKVKVRV NTHGIFTIST ASMVEKVPT  
ENEMSSEADM ECLNQRPPEN PDTDKNVQQD NSEAGTQPQV QTDAAQTSQS PPSPELTSEE  
NKIPDADKAN EKKVDQPPEA KKP KIKVNV ELPIEANLVW QLGKDLLNMY IETEGMIMQ  
DKLEKER NDA KNAVEEYVYE FRDKLCGPYE KFICEQDHQN FLRLLTETED WLYEEGEDQA  
KQAYVDKLEE LMKIGTPVKV RFQEAERP K MFEELGQRLQ HYAKIAADFR NKDEKYNHID  
ESEMKKVEKS VNEVMEWMNN VMNAQAKKSL DQDPVVRAQE IKTKIKELNN TCEPVVTQPK  
PKIESPKLER TPNGPNIDKK EEDLEDKNNF GAEPHQNGE CYPNEKNSVN MDLD.

