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**Product Data Sheet**


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Product Name: HSPH1 Human  
 Cat. No.: GP25095  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	<p>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMVSV          GLDVGSQSCY IAVARAGGIE TIANEFSDRC TPSVISFGSK NRTIGVAAKN          QQITHANNTV SNFKRFHGRA FNDPFIQKEK ENLSYDLVPL KNGGVGIKVM          YMGEHLFSV EQITAMLLTK LKETAENSLK KPVTDCVISV PSFPTDAERR          SVLDAAQIVG LNCLRLMNDM TAVALNYGIY KQDLPSLDEK PRIVVFVDMG          HSAFQVSACA FNKGKLVVLG TAFDPFLGGK NFDEKLVEHF CAEFKTKYKL          DAKSKIRALL RLYQECEKLL KLMSSNSTDL PLNIECFMND KDVSGKMNRS          QFEELCAELL QKIEVPLYSL LEQTHLKVED VSAVEIVGGA TRIPAVKERI          AKFFGKDIST TLNADEAVAR GCALQCAILS PAFKVREFSV TDAVPPFISL          IWNHDSSEDE GVHEVFSRNH AAPFSKVLTF LRRGPFLEA FYSDPQGVVY          PEAKIGRFVV QNVSAQKDGE KSRVKVKVRV NTHGIFTIST ASMVEKVPT          ENEMSSEADM ECLNQRPPEN PDTDKNVQQD NSEAGTQPQV QTDAQQTSQS          PPSPELTSEE NKIPDADKAN EKKVDQPPEA KPKIKVVNV ELPIEANLVW          QLGKDLLNMY IETEGKMIMQ DKLEKERNDA KNAVEEYVYE FRDKLCGPYE          KFICEQDHQN FLRLLTETED WLYEEGEDQA KQAYVDKLEE LMKIGTPVKV          RFQEAERP K MFEELGQRLQ HYAKIAADFR NKDEKYNHID ESEMKKVEKS          VNEVMEWMNN VMNAQAKKSL DQDPVVRAQE IKTKIKELNN TCEPVVTQPK          PKIESPKLER TPNGPNIDKK EEDLEDKNNF GAEPHQNGE CYPNEKNSVN          MDLD.</p>		
Formulation	The HSP105 protein solution contains 20mM Tris-HCl, pH-8 and 50mM NaCl.		

**Introduction**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

### Stability

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.

### Background

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.

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