

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 KDRWGSMSSV GLDVGSQSCY IAVARAGGIE
TIANEFSDRC TPSVISFGSK NRTIGVAAKN QQITHANNTV SNFKRFHGRA FNDPFIQKEK ENLSYDLVPL
KNGGVGIVKM YMGEHLFSV EQITAMLLTK LKETAENSLK KPVTDCVISV PSFPTDAERR SVLDAAQIVG
LNCLRLMNDM TAVALNYGIY KQDLPSLDEK PRIVVFVDMG HSAFQVSACA FNKGKLVKLG TAFDPFLGGK
NFDEKLVEHF CAEFKTKYKL DAKSKIRALL RLYQECEKLMSSNSTDL PLNIECFMND KDVSGKMNRS
QFEELCAELL QKIEVPLYSL LEQTHLKVED VSAVEIVGGA TRIPAVKERI AKFFGKDIST TLNADEAVAR
GCALQCAILS PAFKVREFSV TDAVFPFISL IWNHDSDETE GVHEVFSRNH AAPFSKVLTF LRRGPFLEA
FYSDPQGVVY PEAKIGRFVV QNVSAQKDGE KSRVKVKVRV NTHGIFTIST ASMVEKVPT ENESSSEADM
ECLNQRPPEN PDTDKNVQQD NSEAGTQPQV QTDAAQTSQS PPSPELTSEE NKIPDADKAN
EKKVDQPPEA KPKIKVVNV ELPIEANLVW QLGKDLLNMY IETEGKMIMQ DKLEKERNDA KNAVEEYVYE
FRDKLCGPYE KFICEQDHQN FLRLLTETED WLYEEGEDQA QAYVDKLEE LMKIGTPVKV RFQEAERP
MFEELGQRLQ HYAKIAADFR NKDEKYNHID ESEMKKVEKS VNEVMEWMNN VMNAQAKKSL
DQDPVVRAQE IKTKIKELNN TCEPVVTPK PKIESPKLER TPNGPNIDKK EEDLEDKNNF GAEPHQNGE
CYPNEKNSVN MDLD.

