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California Bioscience

Product Datasheet

Product Name	Heat Shock Protein 105 Human Recombinant
Cata No	CB501412
Source	*Escherichia Coli.*
Synonyms	HSPH1, Heat Shock protein 105kDa, 110kDa protein 1, Heat shock 110 kDa protein, HSP110, HSP105α, Antigen NY-CO-25, HSP105, HSP105A, HSP105B, KIAA0201, NY-CO-25, DKFZp686M05240.

Description

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.
Recombinant HSPH1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 894 amino acids and having a molecular mass of 100 kDa. HSP105 αlpha is fused with His tag and purified by conventional chromatography techniques.

Physical Appearance

Sterile filtered colorless solution.

Purity

Greater than 90.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

The HSP105 protein solution contains 20mM Tris-HCl, pH-8 and 50mM NaCl.

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.

Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSVV GLDVGSQSCY IAVARAGGIE TIANEFSDRC TPSVISFGSK NRTIGV AAKN 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 TLNADEA
VAR GCALQCAILS PAFKVREFSV TDAVPFPISL IWNHDSEDTE GVHEVFSRNH AAPFSKVLTF LRRGPFELEA FYSDPQGVPY PEAKIGRFVV

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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 HYAKIADDFE NKPEKYNHID ESEMKKVEKS VNEVMEWMNN VMNAQAKKSL DQDPVVRAQE IKTKIKELNN TCEPVVTQPK PKIESPKLER TPNGPNIDKK EEDLEDKNNF GAEPPHQNGE CYPNEKNSVN MDLD.

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