
Product Data Sheet

Product Name: HSPA13 Human
 Cat. No.: GP25111
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Heat shock protein 70kDa family member 13; STCH; Stress 70 protein chaperone microsomal-associated 60kD; Microsomal stress-70 protein ATPase core.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM QQYLPLPTPK VIGIDLGTTY CSVGVFFPGT GKVKVIPDEN GHISIPSMVS FTDNDVYVGY ESVELADSNP QNTIYDAKRF IGKIFTAEEL EAEIGRYPFK VLNKNMVEF SVTSNETITV SPEYVGSRL LKLKEMAEAY LGMPVANAVI SVPAEFDLKQ RNSTIEAANL AGLKILRVIN EPTAAAMAYG LHKADV FHV L VIDLGGGTL D VLLNKQGGM FLTRAMSGNN KLGGQDFNQR LLQYLYKQIY QTYGFVPSRK EEIHRLRQAV EMVKLNLT LH QSAQLSVLLT VEEQDRKEPH SSDTELPKDK LSSADDHRVN SGFGRGLSDK KSGESQVLFE TEISRKLFD T LNE DLFQKIL VPIQQVLKEG HLEKTEIDEV VLVGGSTRIP RIRQVIQEFF GKDPNTSVDP DLAVVTGVAI QAGIDGGFWP LQVSALEIPN KHLQKTNFN.		
Formulation	The HSPA13 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0), 100mM NaCl, 1mM DTT and 10% glycerol.		

Introduction

HSPA13 belongs to the heat shock protein 70 family and is related to microsomes. Members of this protein family take part in the processing of cytosolic and secretory proteins, in addition to the exclusion of denatured or incorrectly-folded proteins. HSPA13 is known to cooperate with PLIC-1 and PLIC-2, proteins which have a role in the signaling connection between the membrane receptors for thrombospondin and the cytoskeleton.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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

HSPA13 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 489 amino acids (23-471a.a.) and having a molecular mass of 54.3 kDa. HSPA13 is fused to a 40 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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