

# Recombinant human HSPA13 protein

Catalog Number: ATGP0971

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

23-471aa

### UniProt No.

P48723

### NCBI Accession No.

AAH36370

### Alternative Names

Heat shock protein 70kDa family member 13, STCH

## PRODUCT SPECIFICATION

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### Molecular Weight

54.3 kDa (489aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

HSPA13, also known as STCH, is a member of the heat shock protein 70 family and is found associated with microsomes. Members of this protein family play a role in the processing of cytosolic and secretory proteins, as well as in the removal of denatured or incorrectly-folded proteins. HSPA13 has been found to interact with PLIC-1 and PLIC-2, proteins involved in the signaling connection between the membrane receptors for thrombospondin and the cytoskeleton. Recombinant human HSPA13 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSELEM QQYLPLPTPK VIGIDLGTTY CSVGVFFPGT  
GKVKVIPDEN GHISIPSMVS FTDNDVYVGY ESVELADSNP QNTIYDAKRF IGKIFTAEEL EAEIGRYPFK VLNKNMGVVEF  
SVTSNETITV SPEYVGSRL LKLKEMAEAY LGMPVANAVI SVPAEFDLKQ RNSTIEAANL AGLKILRVIN EPTAAAMAYG  
LHKADV FHLV VIDLGGGTLD VLLNKQGGM FLTRAMSGNN KLGGQDFNQR LLQYLYKQIY QTYGFVPSRK EEIHLRQAV  
EMVKLNLT LH QSAQLSVLLT VEEQDRKEPH SSDTELPKDK LSSADDHRVN SGFGRGLSDK KSGESQVLFE TEISRKLFD  
LNEDLFQKIL VPIQQVLKEG HLEKTEIDEV VLVGGSTRIP RIRQVIQEFF GKDPNTSVDP DLAVVTGVAI QAGIDGGFWP  
LQVSALEIPN KHLQKTNFN

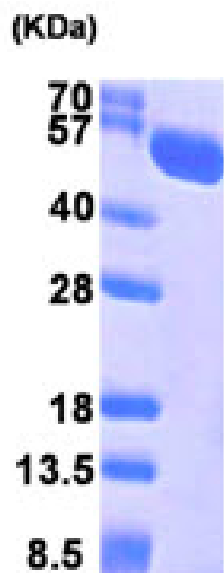
## General References

Lim J., et al. (2006) Cell. 125(4):801-14.  
Rual JF., et al. (2005) Nature. 437(7062):1173-8.

## DATA

### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.



15% SDS-PAGE (3ug)