Recombinant human HSPA13 protein

Catalog Number: ATGP0971

PRODUCT INFORMATION

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

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

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

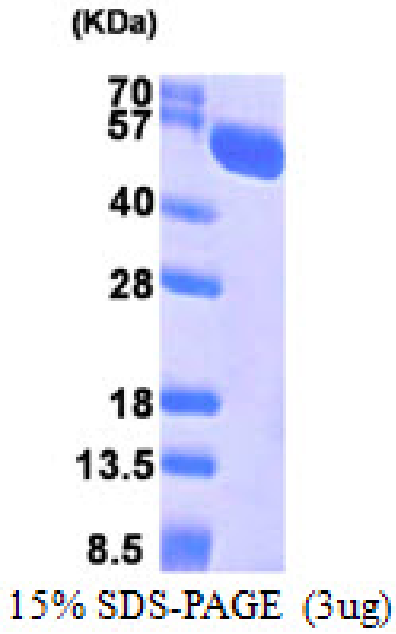
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM QQYLPLPTPK VIGIDLGTTY CSVGVFFPGT GKVKVIPDEN GHISIPSMVS FTDNDVYVGY ESVELADSNP QNTIYDAKRF IGKIFTAEEL EAEIGRYPFK VLNKNGMVEF SVTSNETITV SPEYVGSRLL LKLKEMAEAY LGMPVANAVI SVPAEFDLKQ RNSTIEAANL AGLKILRVIN EPTAAAMAYG LHKADVFHVL VIDLGGGTLD VSLLNKQGGM FLTRAMSGNN KLGGQDFNQR LLQYLYKQIY QTYGFVPSRK EEIHRLRQAV EMVKLNLTLH QSAQLSVLLT VEEQDRKEPH SSDTELPKDK LSSADDHRVN SGFGRGLSDK KSGESQVLFE TEISRKLFDT 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



15% SDS-PAGE (3ug)

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