Recombinant human STI1/STIP1 protein

Catalog Number: ATGP0426

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-543aa

UniProt No.
P31948

NCBI Accession No.
NP_006810

Alternative Names
Stress-induced-phosphoprotein 1, Hsc70/Hsp90-organizing protein, Hop, Renal carcinoma antigen NY-REN-11, Transformation-sensitive protein IEF SSP 3521

PRODUCT SPECIFICATION

Molecular Weight
64.8 kDa (563aa)

Concentration
1mg/ml (determined by Bradford assay)

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

Purity
> 90% 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
Stress-induced-phosphoprotein1 (STI1), also known as HOP, belongs to the large group of co-chaperones. The main function of STI1 is to link Hsp70 and Hsp90 together. But recent investigations indicate that it also modulates the chaperone activities of the linked proteins and possibly interacts with other chaperones and proteins. It forms a complex with HSC70 and HSPCA/HSP-86 and HSPCB/HSP-84, as well as interacting with PACRG. Recombinant human STI1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

conventional chromatography techniques.

Amino acid Sequence

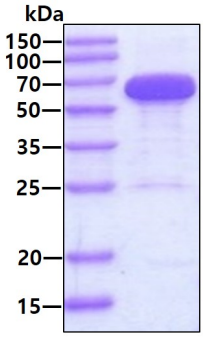
<MGSSHHHHHH SSGLVPRGSH> MEQVNELKEK GNKALSVGNI DDALQCYSEA IKLDPHNHVL YSNRSAAYAK KGDYQKAYED GCKTVDLKPD WGKGYSRKAA ALEFLNRFEE AKRTYEEGLK HEANNPQLKE GLQNMEARLA ERKFMNPFNM PNLYQKLESD PRTRTLLSDP TYRELIEQLR NKPSDLGTKL QDPRIMTTLS VLLGVDLGSM DEEEEIATPP PPPPPKKETK PEPMEEDLPE NKKQALKEKE LGNDAYKKKD FDTALKHYDK AKELDPTNMT YITNQAAVYF EKGDYNKCRE LCEKAIEVGR ENREDYRQIA KAYARIGNSY FKEEKYKDAI HFYNKSLAEH RTPDVLKKCQ QAEKILKEQE RLAYINPDLA LEEKNKGNEC FQKGDYPQAM KHYTEAIKRN PKDAKLYSNR AACYTKLLEF QLALKDCEEC IQLEPTFIKG YTRKAAALEA MKDYTKAMDV YQKALDLDSS CKEAADGYQR CMMAQYNRHD SPEDVKRRAM ADPEVQQIMS DPAMRLILEQ MQKDPQALSE HLKNPVIAQK IQKLMDVGLI AIR

General References

Johnson BD., et al. (1998) J Biol Chem. 273(6):3679-86.
Van Der Spuy J., et al. (2001) Biochem J. 21:462-469.

DATA

SDS-PAGE



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