

Recombinant Human Stress-induced-phosphoprotein 1, His-tagged

Cat. No. STIP1-1810H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human STI1, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 64.8 kDa (563aa).
Species	Human
Source	<i>E.coli</i>
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.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MEQVNELKEK GNKALSVGNI DDALQCYSEA IKLDPHNHVL YSNRSAAYAK KG DYQKAYED GCKTVDLKPD WGKGYSRCAA ALEFLNRFEE AKRTYEEGLK HEANNPQLKE GLQNMEARLA ERKFMNPFNM PNLYQKLESD PRTRTLLSDP TYRELIEQLR NKPSDLGTLK QDPRIMTTLS VLLGVDLGSM DEEEEIATPP PPPPPKKETK PEPMEEDLPE NKKQALKEKE LGNDAYKKKD FDTALKHYDK AKELDPTNMT YITNQAAYVF EKG DYNKCRE LCEKAIEVGR ENREDYRQIA KAYARIGNSY FKEEKYKDAI HFYNKSLAEH RTPDVLKKCQ QAEKILKEQE RLAYINPDLA LEEKNKGNEC FQKGDYPQAM KHYTEAIKRN PKDAKLYSNR AACYTKLLEF QLALKDCEEC IQLEPTFIKG

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YTRKAAALEA MKDYTKAMDV YQKALDLDSS CKEAADGYQR CMMAQYNRHD
SPEDVKRRAM ADPEVQQIMS DPAMRLILEQ MQKDPQALSE HLKNPVIAQK
IQKLMDVGLI AIR

Form

Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 20% glycerol, 1mM EDTA, 0.2mM PMSF.

Purity

> 90% by SDS – PAGE.

Concentration

1 mg/ml (determined by Bradford assay).

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

STIP1 stress-induced-phosphoprotein 1 [Homo sapiens]

Synonyms

STIP1; stress-induced-phosphoprotein 1; HOP; P60; STI1; STI1L; IEF-SSP-3521; Hsp70/Hsp90-organizing protein; Transformation-sensitive protein IEF SSP 3521; NY-REN-11 antigen; stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein)

Gene ID

10963

mRNA Refseq

NM_006819

Protein Refseq

NP_006810

MIM

605063

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UniProt ID	P31948
Chromosome Location	11q13
Pathway	Prion diseases
Function	protein binding

PDB rendering based on 1elr.

