

Recombinant Human STIP1 Homology And U-box Containing Protein 1

Cat. No. STUB1-336H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CHIP protein was expressed in E.coli and purified by using conventional chromatography techniques (303 aa, 34.8 kDa).
Species	Human
Source	E.coli
Description	CHIP, also known as STUB1, is a cytoplasmic protein whose amino acid sequence is highly conserved across species. CHIP interacts with the molecular chaperones Hsc70-Hsp70 and Hsp90 through its TPR domain, whereas its U-box domain contains its E3 ubiquitin ligase activity. Its interaction with these molecular chaperones results in client substrate ubiquitylation and degradation by the proteasome. Thus, CHIP acts to tilt the folding-refolding machinery toward the degradative pathway, and it serves as a link between the two.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 5 mM DTT, 10% glycerol.
Molecular Weight	34.8 kDa (303 aa).
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MKGKEEKEGG ARLGAGGGSP EKSPSAQELK EQGNRLFVGR KYPEAAACYG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RAITRNPLVA VYYTNRALCY LKMQQHEQAL ADCRRALELD GQSVKAHFFL
 GQCQLEMESY DEAIANLQRA YSLAKEQRLN FGDDIPSALR IAKKKRWNSI
 EERRIHQESE LHSYLSRLIA AERERELEEC QRNHEGDEDD SHVRAQQACI
 EAKHDKYMAD MDELFSQVDE KRKKRDIPDY LCGKISFELM REPCITPSGI
 TYDRKDIEEH LQRVGHFDPV TRSPLTQEQL IPNLAMKEVI DAFISENGWV EDY

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

STUB1

Synonyms

STUB1; STIP1 homology and U-box containing protein 1; STUB1 STIP1 homology and U-box containing protein 1; CHIP; UBOX1; HSPABP2; NY-CO-7; SDCCAG7; EC 6.3.2.-; Antigen NY-CO-7; CLL-associated antigen KW-8; Carboxy terminus of Hsp70-interacting protein; E3 ubiquitin-protein ligase CHIP; STIP1 homology and U-box containing protein 1; heat shock protein A binding protein 2 (c-terminal); serologically defined colon cancer antigen 7.

Gene ID

10273

mRNA Refseq

NM_005861.2

Protein Refseq

NP_005852.2

MIM

607207

UniProt ID

Q9UNE7

Chromosome

16p13.3

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Location

Function

Hsp70 protein binding; Hsp90 protein binding; SMAD binding; TPR domain binding; enzyme binding; ligase activity; protein binding, bridging; protein homodimerization activity; ubiquitin-ubiquitin ligase activity.

PDBrendering based
on 2c2l. Available
structures: 2c2l, 2c2v.

