

Recombinant human CHIP/STUB1 protein

Catalog Number: CHP0905

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-303aa

UniProt No.

Q9UNE7

NCBI Accession No.

NP_005852

Alternative Names

Carboxy terminus of HSP70 interacting protein, STuB1, HSPABP2, NY-CO-7, SDCCAG7, uBOX1, Carboxy terminus of HSP70 interacting protein Antigen NY CO 7, CLL associated antigen KW 8, Carboxy terminus of Hsp70p interacting protein, CHIP, E3 ubiquitin protein ligase CHIP, STuB 1, uBOX 1, Heat shock protein A binding protein 2 (c terminal), NY CO 7, Serologically defined colon cancer antigen 7, STIP1 homology and u Box containing protein 1.

PRODUCT SPECIFICATION

Molecular Weight

34.8 kDa (303aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 5mM DTT, 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

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

Recombinant human CHIP/STUB1 protein

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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. Recombinant human CHIP protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

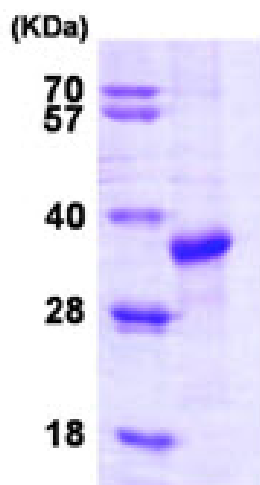
MKGKEEKEGG ARLGAGGGSP EKSPSAQELK EQGNRLFVGR KYPEAAACYG RAITRNPLVA VYYTNRALCY LKMQQHEQAL ADCRRALELD GQSVKAHFFL GQCQLEMESY DEAIANLQRA YSLAKEQRLN FGDDIPSALR IAKKKRWNSI EERRIHQESE LHSYLSRLIA AERERELEEC QRNHEGDEDD SHVRAQQACI EAKHDKYMAD MDELFSQVDE KRKKRDIPDY LCGKISFELM REPCITPSGI TYDRKDIEEH LQRVGHFDPV TRSPLTQEQL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

General References

Kajiro M., et al. (2009) Nat Cell Biol. 11(3):312-9.
Ko HS., et al. (2009) Proc Natl Acad Sci. 106(8):2897-902.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)