

Product Name: CHIP

Alternate Names: STUB1; Antigen NY-CO-7; CLL-associated antigen KW-8; Carboxy terminus of Hsp70-interacting protein; STIP1 homology and U box-containing protein 1

Product Code: TE3-116

FOR RESEARCH USE ONLY (RUO)**Verified Applications / Usage**

Enables ubiquitination assays and protein quality control studies by targeting chaperone-bound substrates such as Hsp70 client proteins for proteasomal degradation, with applications in neurodegeneration and stress response research.

Physical Characteristics

Species: Human

Predicted MW (kDa): 37 kDa

Source: *E. coli* BL21

Purity: 95 %

Tag: N-His₈-3C

Formulation: 40 mM HEPES, 200 mM NaCl, 10% Glycerol, 1 mM EDTA, 2 mM TCEP, pH 7.6

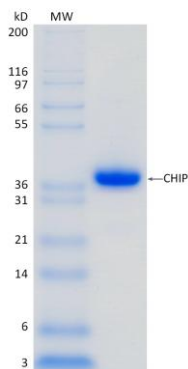
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: E3 ubiquitin-protein ligase
CHIP



2 µg CHIP run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Ubiquitylation Assay.

Background

Description

CHIP is a U-box E3 ubiquitin ligase and co-chaperone that links heat shock proteins to proteasomal degradation of misfolded proteins. It regulates protein quality control, stress responses, and immune signaling, and is implicated in neurodegeneration and cancer.

Accession Number: Q9UNE7

Entrez Gene ID: CHIP

Protein Sequence

```
MHHHHHHHHHGSLEVLFGGPSMKGKEEKEGGARLGAGGGSPEKSPSAQELKEQGNRLFVGRKYP
EAAACYGRAITRNPLVAVYYTNRALCYLKMQQHEQALADCRRALELDGQSVKAHFFLGQCQLE
MESYDEAIANLQRAYSLAKEQRLNFGDDIPALRIAKKKRWNSIEERRIHQESLHLSRLI
AAERERELEECQRNHEGDEDDSHVRAQQACIEAKHDKYMADMDELFSQVDEKRKKRDIPDYLC
GKISFELMREPCITPSGITYDRKDIEEHLQRVGHFDPVTRSPILTQEQLIPNLAMKEVIDAFIS
ENGWVEDY
```