Recombinant Human STUB1 Protein

Catalog Number: PKSH032367



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms E3 Ubiquitin-Protein Ligase CHIP; Antigen NY-CO-7; CLL-Associated Antigen

KW-8; Carboxy Terminus of Hsp70-Interacting Protein; STIP1 Homology and U Box-

Containing Protein 1;STUB1;CHIP

Species Human
Expression Host E.coli

Sequence Met 1-Tyr303
Accession Q9UNE7
Calculated Molecular Weight 34.9 kDa
Observed molecular weight 33 kDa
None

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Store at $< -20^{\circ}$ C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution Not Applicable

Background

E3 Ubiquitin-Protein Ligase CHIP is a cytoplasmic protein. CHIP is highly expressed in skeletal muscle, heart, pancreas, brain and placenta. CHIP interacts with the molecular chaperones Hsc70-Hsp70 and Hsp90 through its TPR domain; lead to in client substrate ubiquitylation and degradation by the proteasome. CHIP targets misfolded chaperone substrates towards proteasomal degradation. CHIP mediates transfer of non-canonical short ubiquitin chains to HSPA8 that have no effect on HSPA8 degradation. CHIP plays a role in base-excision repair: catalyzes polyubiquitination by amplifying the HUWE1/ARF-BP1-dependent monoubiquitination and leading to POLB-degradation by the proteasome. It also may regulate the receptor stability and activity through proteasomal degradation.

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