Recombinant Human STUB1 Protein

Catalog No. 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
Tag	None
Bioactivity	Not validated for activity

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°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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