

Datasheet for ABIN7565218  
**STUB1 Protein (AA 1-304) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	STUB1
Protein Characteristics:	AA 1-304
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STUB1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Stub1 Protein expressed in mammalian cells.
Sequence:	<p>MKGKEEKEGG ARLGTGGGGS PDKSPSAQEL KEQGNRLFVG RKYPEAAACY GRAITRNPLV AVYYTNRALC YLKMQQPEQA LADCRRALEL DGQSVKAHFF LGQCQLEMES YDEAIANLQR AYSLAKEQRL NFGDDIPSAL RIAKKKRWNS IEERRIHQES ELHSYLTRLI AAERERELEE CQRNHEGHED DGHIRAQQAC IEAKHDKYMA DMDELFSQVD EKRKKRDIPD YLCGKISFEL MREPCITPSG ITYDRKDIEE HLQRVGHFDP VTRSPLTQEQ LIPNLAMKEV IDAFISENGW VEDY</p> <p><b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

## Product Details

---

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

---

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
---------	---

---

Grade:	custom-made
--------	-------------

---

## Target Details

---

Target:	STUB1
---------	-------

---

Alternative Name:	Stub1 ( <a href="#">STUB1 Products</a> )
-------------------	--

---

Background:	<p>E3 ubiquitin-protein ligase CHIP (EC 2.3.2.27) (Carboxy terminus of Hsp70-interacting protein) (RING-type E3 ubiquitin transferase CHIP) (STIP1 homology and U box-containing protein 1),FUNCTION: E3 ubiquitin-protein ligase which targets misfolded chaperone substrates towards proteasomal degradation (PubMed:11435423, PubMed:21855799, PubMed:26265139). Plays a role in the maintenance of mitochondrial morphology and promotes mitophagic removal of dysfunctional mitochondria, thereby acts as a protector against apoptosis in response to cellular stress (PubMed:29934347). Negatively regulates vascular smooth muscle contraction, via degradation of the transcriptional activator MYOCD and subsequent loss of transcription of genes involved in vascular smooth muscle contraction (By similarity). Promotes survival and proliferation of cardiac smooth muscle cells via ubiquitination and degradation of FOXO1, resulting in subsequent repression of FOXO1-mediated transcription of pro-apoptotic genes (By similarity). Ubiquitinates ICER-type isoforms of CREM and targets them for proteasomal degradation, thereby acts as a positive effector of MAPK/ERK-mediated inhibition of apoptosis in cardiomyocytes (By similarity). Inhibits</p>
-------------	---

---

## Target Details

---

lipopolysaccharide-induced apoptosis and hypertrophy in cardiomyocytes, via ubiquitination and subsequent proteasomal degradation of NFATC3 (By similarity). Collaborates with ATXN3 in the degradation of misfolded chaperone substrates: ATXN3 restricting the length of ubiquitin chain attached to STUB1/CHIP substrates and preventing further chain extension (PubMed:11435423, PubMed:21855799). Ubiquitinates NOS1 in concert with Hsp70 and Hsp40 (By similarity). Modulates the activity of several chaperone complexes, including Hsp70, Hsc70 and Hsp90 (By similarity). Ubiquitinates CHRNA3 targeting it for endoplasmic reticulum-associated degradation in cortical neurons, as part of the STUB1-VCP-UBXN2A complex (By similarity). Ubiquitinates and promotes ESR1 proteasomal degradation in response to age-related circulating estradiol (17-beta-estradiol/E2) decline, thereby promotes neuronal apoptosis in response to ischemic reperfusion injury (By similarity). Mediates transfer of non-canonical short ubiquitin chains to HSPA8 that have no effect on HSPA8 degradation (By similarity). Mediates polyubiquitination of DNA polymerase beta (POLB) at 'Lys-41', 'Lys-61' and 'Lys-81', thereby playing a role in base-excision repair: catalyzes polyubiquitination by amplifying the HUWE1/ARF-BP1-dependent monoubiquitination and leading to POLB-degradation by the proteasome (By similarity). Mediates polyubiquitination of CYP3A4 (By similarity). Ubiquitinates EPHA2 and may regulate the receptor stability and activity through proteasomal degradation (By similarity). Acts as a co-chaperone for HSPA1A and HSPA1B chaperone proteins and promotes ubiquitin-mediated protein degradation. Negatively regulates the suppressive function of regulatory T-cells (Treg) during inflammation by mediating the ubiquitination and degradation of FOXP3 in a HSPA1A/B-dependent manner (PubMed:23973223). Catalyzes monoubiquitination of SIRT6, preventing its degradation by the proteasome (PubMed:24043303). Likely mediates polyubiquitination and down-regulates plasma membrane expression of PD-L1/CD274, an immune inhibitory ligand critical for immune tolerance to self and antitumor immunity (By similarity). Negatively regulates TGF-beta signaling by modulating the basal level of SMAD3 via ubiquitin-mediated degradation (By similarity). Plays a role in the degradation of TP53 (By similarity). Mediates ubiquitination of RIPK3 leading to its subsequent proteasome-dependent degradation (By similarity). May regulate myosin assembly in striated muscles together with UBE4B and VCP/p97 by targeting myosin chaperone UNC45B for proteasomal degradation (By similarity). {ECO:0000250|UniProtKB:A6HD62, ECO:0000250|UniProtKB:Q9UNE7, ECO:0000269|PubMed:11435423, ECO:0000269|PubMed:21855799, ECO:0000269|PubMed:26265139, ECO:0000269|PubMed:29934347}.

---

Molecular Weight: 34.9 kDa

UniProt: [Q9WUD1](#)

---

## Target Details

---

Pathways: [Regulation of Hormone Metabolic Process, Response to Water Deprivation](#)

## Application Details

---

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

---

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months