

Datasheet for ABIN7544802  
**TRIM55 Protein (AA 1-548) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TRIM55
Protein Characteristics:	AA 1-548
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM55 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant TRIM55 Protein expressed in mammalian cells.
Sequence:	<p>MSASLNYSKF SKEQQTMDNL EKQLICPICL EMFTKPVVIL PCQHNLCKRC ASDIFQASNP YLPTRGGTTM ASGGRFRCPS CRHEVVLDRH GYGLQRNLL VENIIDYKQ ESTRPEKKS QPMCEEHEEE RINIYCLNCE VPTCSLCKVF GAHKDCQVAP LTHVFQRQKS ELSDGAILV GSNDRVQGVI SQLEDTCCKTI EECCKRQKQE LCEKFDYLYG ILEERKNEMT QVITRTQEEK LEHVRAIKK YSDHLENVSK LVESGIQFMD EPEMAVFLQN AKTLLKKISE ASKAFQMEKI EHGYENMNHF TVNLNREEKI IREIDFYRED EDEEEEEEGGE GEKEGEGEVG GEAVEVEEVE NVQTEFPGED ENPEKASELS QVELQAAPGA LPVSSPEPPP ALPPAADAPV TQGEVPTGS EQTTESETPV PAAAEADPL FYPSWYKQQT RKATTNPPCT PGSEGLGQIG PPGSEDSNVR KAEVAAAAAS ERAAVSGKET SAPAATSQIG FEAPPLQGQA AAPASGSGAD SEPARHIFSF SWLNSLNE <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>

## Product Details

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**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.

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**Characteristics:** **Key Benefits:**

- 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.

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

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**Grade:** custom-made

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## Target Details

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**Target:** TRIM55

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**Alternative Name:** TRIM55 ([TRIM55 Products](#))

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**Background:** Tripartite motif-containing protein 55 (EC 2.3.2.27) (Muscle-specific RING finger protein 2) (MuRF-2) (MuRF2) (RING finger protein 29),FUNCTION: E3 ubiquitin ligase that plays an important role in regulating cardiac development and contractility, muscle growth, metabolism, and fiber-type differentiation. Acts as a critical factor that regulates cardiomyocyte size during development in concert with TRIM63 by regulating E2F1-mediated gene expression (By similarity). Plays a role in apoptosis induction in cardiomyocytes by promoting ubiquitination of the DUSP1 phosphatase. Promotes non-canonical NF-kappa-B signaling and B-cell-mediated immune responses by mediating NFKB2 'Lys-48'-linked ubiquitination and processing. In turn, NFKB2 is further processed by valosin-containing protein/VCP, an ATPase that mediates ubiquitin-dependent protein degradation by the proteasome. May play a role in preventing macrophages from producing inflammatory factors and migrating by downregulating the level

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## Target Details

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of nuclear NF-kappa-B subunit RELA. Modifies also PPARG via polyubiquitination and accelerates PPARG proteasomal degradation to inhibit its activity (PubMed:36737649). {ECO:0000250|UniProtKB:G3X8Y1, ECO:0000269|PubMed:36737649, ECO:0000269|PubMed:37816088}.

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Molecular Weight: 60.5 kDa

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UniProt: [Q9BYV6](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months