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Datasheet for ABIN7563980

**TRIM24 Protein (AA 1-1051) (His tag)**

## Overview

Quantity:	1 mg
Target:	TRIM24
Protein Characteristics:	AA 1-1051
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRIM24 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Trim24 Protein expressed in mammalian cells.
Sequence:	MEVAVEKAAA AAAPAGGPAA AAPSGENEAE SRQGPDSSESG GEASRLNLLD TCAVCHQNIQ SRVPKLLPCL HSFCQRCLPA PQRYLMLTAP ALGSAETPPP APAPAPAPGS PAGGPPSPFAT QVGVIRCPVC SQECAERHII DNFFVKDTTE VPSSTVEKSN QVCTSCEDNA EANGFCVECV EWLCKTCIRA HQRVKFTKDH TVRQKEEVSP EAVGVTSQRP VFCPFHKKEQ LKLYCETCDK LTCRDCQLE HKEHRYQFIE EAFQNQKVII DTLITKLMEK TKYIKYTGNG IQNRIIEINQ NQKQVEQDIK VAIFTLMVEI NKKGKALLHQ LESLAKDHRM KLMQQQVEVA GLSKQLEHVM HFSKWAVSSG SSTALLYSKR LITYRLRHLL RARCDASPVT NTTIQFHCDP SFWAQNIINL GSLVIEDKES QPQMPKQNPV VEQSSQPPGG LPSNQLSKFP TQISLAQLRL QHIQQQVMAQ RQQVQRRPAP VGLPNPRMQG PIQQPSISHQ HPPPRLLINFQ NHSPKPNPVP LPPYPQQLRY SPSQNVPRQT TIKPNPLQMA FLAQQAQKQW QISSVQAPPT TASSSSSTPS SPTITSAAGY DGKAFSSPMI DLSAPVGGSY NLPSLPDIDC SSTIMLDNIA RKDTGVDHAQ PRPPSNRTVQ

## Product Details

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SPNSSVPSPG LAGPVTMTSV HPPIRSPSAS SVGSRGSSGS SSKPAGADST HKVPVWMLEP  
IRIQENSGP PENYDFPVI VKQESDEESR PQNTNYPRSI LTSLLLNSSQ SSASEETVLR  
SDAPDSTGDQ PGLHQENSSN GKSEWSDASQ KSPVHVGETR KEDDPNEDWC AVCQNGGELL  
CCEKCPKVFH LTCHVPTLTN FPSGEWICTF CRDLSKPEVD YDCDVPSHHS EK RKSEGLTK  
LTPIDKRKCE RLLFLYCHE MSLAFQDPVP LTVPDYYKII KNPMDLSTIK KRLQEDYCMY  
TKPEDFVADF RLIFQNCAEF NEPDSEVANA GIKLESYFEE LLKNLYPEKR FPKVEFRHEA  
EDCKFSDDSD DDFVQPRKKR LKSTEDRQLL K **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.**

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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, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

TRIM24

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### Alternative Name:

Trim24 ([TRIM24 Products](#))

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### Background:

Transcription intermediary factor 1-alpha (TIF1-alpha) (EC 2.3.2.27) (E3 ubiquitin-protein ligase Trim24) (RING-type E3 ubiquitin transferase TIF1-alpha) (Tripartite motif-containing protein 24),FUNCTION: Transcriptional coactivator that interacts with numerous nuclear receptors and

coactivators and modulates the transcription of target genes. Interacts with chromatin depending on histone H3 modifications, having the highest affinity for histone H3 that is both unmodified at 'Lys-4' (H3K4me0) and acetylated at 'Lys-23' (H3K23ac) (By similarity). Has E3 protein-ubiquitin ligase activity. Promotes ubiquitination and proteasomal degradation of p53/TP53. Plays a role in the regulation of cell proliferation and apoptosis via its effects on p53/TP53 levels. Up-regulates ligand-dependent transcription activation by AR, GCR/NR3C1, thyroid hormone receptor (TR) and ESR1. Modulates transcription activation by retinoic acid (RA) receptors, such as RARA. Plays a role in regulating retinoic acid-dependent proliferation of hepatocytes. Required for normal transition from proliferating neonatal hepatocytes to quiescent adult hepatocytes. {ECO:0000250, ECO:0000269|PubMed:10610177, ECO:0000269|PubMed:16322096, ECO:0000269|PubMed:16880268, ECO:0000269|PubMed:18026104, ECO:0000269|PubMed:19556538, ECO:0000269|PubMed:19909775, ECO:0000269|PubMed:7744009}., FUNCTION: Transcriptional coactivator that interacts with numerous nuclear receptors and coactivators and modulates the transcription of target genes. Interacts with chromatin depending on histone H3 modifications, having the highest affinity for histone H3 that is both unmodified at 'Lys-4' (H3K4me0) and acetylated at 'Lys-23' (H3K23ac). Has E3 protein-ubiquitin ligase activity. During the DNA damage response, participates in an autoregulatory feedback loop with TP53. Early in response to DNA damage, ATM kinase phosphorylates TRIM24 leading to its ubiquitination and degradation. After sufficient DNA repair has occurred, TP53 activates TRIM24 transcription, ultimately leading to TRIM24-mediated TP53 ubiquitination and degradation (By similarity). Plays a role in the regulation of cell proliferation and apoptosis, at least in part via its effects on p53/TP53 levels. Up-regulates ligand-dependent transcription activation by AR, GCR/NR3C1, thyroid hormone receptor (TR) and ESR1. Modulates transcription activation by retinoic acid (RA) receptors, including RARA. Plays a role in regulating retinoic acid-dependent proliferation of hepatocytes (By similarity). Participates also in innate immunity by mediating the specific 'Lys-63'-linked ubiquitination of TRAF3 leading to activation of downstream signal transduction of the type I IFN pathway. Additionally, negatively regulates NLRP3/CASP1/IL-1beta-mediated pyroptosis and cell migration probably by ubiquitinating NLRP3 (By similarity). {ECO:0000250|UniProtKB:O15164, ECO:0000269|PubMed:10610177, ECO:0000269|PubMed:16322096, ECO:0000269|PubMed:16880268, ECO:0000269|PubMed:18026104, ECO:0000269|PubMed:19556538, ECO:0000269|PubMed:19909775, ECO:0000269|PubMed:7744009}.

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Molecular Weight: 116.7 kDa

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## Target Details

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UniProt: [Q64127](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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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