

Datasheet for ABIN7555783

## TRIM24 Protein (AA 1-1050) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	TRIM24
Protein Characteristics:	AA 1-1050
Origin:	Human
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:	<p>MEVAVEKAVA AAAAAASAAAS GGPSAAPSGE NEAESRQGPD SERGGEEARL NLLDTCAVCH</p> <p>QNIQSRAPKL LPCLHSFCQR CLPAPQRYLM LPAPMLGSAE TPPPVPAPGS PVSGSSPFAT</p> <p>QVGVIRCPVC SQECAERHII DNFFVKDTTE VPSSTVEKSN QVCTSCEDNA EANGFCVECV</p> <p>EWLCKTCIRA HQRVKFTKDH TVRQKEEVSP EAVGVTSQRP VFCPFHKKEQ LKLYCETCDK</p> <p>LTCRDCQLE HKEHRYQFIE EAFQNQKVII DTLITKLMEK TKYIKFTGNQ IQNRIIEVNQ</p> <p>NQKQVEQDIK VAIFTLMVEI NKKGKALLHQ LESLAKDHRM KLMQQQVEVA GLSKQLEHVM</p> <p>HFSKWAVSSG SSTALLYSKR LITYRLRHLL RARCDASPT NNTIQFHCDP SFWAQNIINL</p> <p>GSLVIEDKES QPQMPKQNPV VEQNSQPPSG LSSNQLSKFP TQISLAQLRL QHMQQQVMAQ</p> <p>RQQVQRRPAP VGLPNPRMQG PIQQPSISHQ QPPRLINFQ NHSPKPNGPV LPPHPQQLRY</p> <p>PPNQNIQRQA IKPNPLQMAF LAQQAQKQWQ ISSGQGTPT TNSTSSTPSS PTITSAAGYD</p> <p>GKAFGSPMID LSSPVGGSYN LPSLPDIDCS STIMLDNIVR KDTNIDHGQP RPPSNRTVQS</p>

PNSSVPSPGL AGPVTMTSVH PPIRSPSASS VGSRGSSGSS SKPAGADSTH KVPVWMLEPI  
RIKQENSGPP ENYDFPVVIV KQESDEESRP QNANYPRSIL TLLLLNSSQS STSEETVLR  
DAPDSTGDQP GLHQDNSSNG KSEWLDPSQK SPLHVGETRK EDDPNEDWCA VCQNGGELL  
CEKCPKVFHL SCHVPTLTNF PSGEWICTFC RDLSPKEVEY DCDAPSHNSE KKKTEGLVKL  
TPIDKRKCER LLLFLYCHEM SLAFQDPVPL TVPDYYKIIK NPMDLSTIKK RLQEDYSMYS  
KPEDFVADFR LIFQNCAEFN EPDSEVANAG IKLENYFEEL LKNLYPEKRF PKPEFRNESE  
DNKFSDSDDD DFVQPRKKRL KSIEERQLLK

**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.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	TRIM24
Alternative Name:	TRIM24 ( <a href="#">TRIM24 Products</a> )
Background:	Transcription intermediary factor 1-alpha (TIF1-alpha) (EC 2.3.2.27) (E3 ubiquitin-protein ligase TRIM24) (RING finger protein 82) (RING-type E3 ubiquitin transferase TIF1-alpha) (Tripartite motif-containing protein 24),FUNCTION: Transcriptional coactivator that interacts with

## Target Details

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 (PubMed:24820418). 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 (PubMed:32324863). Additionally, negatively regulates NLRP3/CASP1/IL-1beta-mediated pyroptosis and cell migration probably by ubiquitinating NLRP3 (PubMed:33724611). {ECO:0000250, ECO:0000269|PubMed:16322096, ECO:0000269|PubMed:19556538, ECO:0000269|PubMed:21164480, ECO:0000269|PubMed:24820418, ECO:0000269|PubMed:32324863, ECO:0000269|PubMed:33724611}.

Molecular Weight:	116.8 kDa
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UniProt:	<a href="#">O15164</a>
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## Application Details

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.
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Restrictions:	For Research Use only
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## Handling

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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Handling

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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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