TRIM63 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TRIM63, Blocking Peptide
Full Product Name	TRIM63 Blocking Peptide
Product Gene Name	TRIM63 blocking peptide
Product Synonym Names	E3 ubiquitin-protein ligase TRIM63; FLJ32380; IRF; Iris RING finger protein; MURF 1; MURF-1; MuRF1; MURF2; Muscle specific ring finger protein 1; Muscle specific ring finger protein 2; Muscle-specific RING finger protein 1; OTTHUMP00000008701; RING finger protein 28; RNF 28; RNF28; SMRZ; Striated muscle RING zinc finger protein; TRI63_HUMAN; TRIM 63; Trim63; Tripartite motif containing 63; tripartite motif containing 63, E3 ubiquitin protein ligase; Tripartite motif containing protein 63; Tripartite motif-containing protein 63; Ubiquitin ligase TRIM63
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	TRIM63 peptide (MBS9626549) is used for blocking the activity of TRIM63 antibody (MBS9607836)
Molecular Weight	36,950 Da
OMIM	606131
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TRIM63 blocking peptide	Blocking/Control
Related Product Information for TRIM63 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of TRIM63 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TRIM63 purchase	MBS9626549 is a blocking peptide targeting TRIM63.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRIM63. It may not necessarily be applicable to this product.

NCBI GI #	19924163
NCBI GeneID	84676
NCBI Accession #	NP_115977.2
UniProt Primary Accession #	Q969Q1

UniProt Secondary Accession #	Q5T2I1; Q96BD3; Q96KD9; Q9BYV4; B4DN95
UniProt Related Accession #	Q969Q1
GenBank Nucleotide #	NM_032588.3
NCBI Official Full Name	E3 ubiquitin-protein ligase TRIM63
NCBI Official Synonym Full Names	tripartite motif containing 63, E3 ubiquitin protein ligase
NCBI Official Symbol	TRIM63
NCBI Official Synonym Symbols	IRF; SMRZ; MURF1; MURF2; RNF28
UniProt Protein Name	E3 ubiquitin-protein ligase TRIM63
UniProt Synonym Protein Names	Iris RING finger protein; Muscle-specific RING finger protein 1; MuRF-1; MuRF1; RING finger protein 28; Striated muscle RING zinc finger protein; Tripartite motif-containing protein 63
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	TRIM63
UniProt Synonym Gene Names	IRF; MURF1; RNF28; SMRZ; MuRF-1; MuRF1
UniProt Entry Name	TRI63_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase TRIM63; ring finger protein 28; iris ring finger protein; muscle specific ring finger protein 2; muscle-specific RING finger protein 1; tripartite motif-containing protein 63; striated muscle RING zinc finger protein
NCBI Summary for TRIM63	This gene encodes a member of the RING zinc finger protein family found in striated muscle and iris. The product of this gene is an E3 ubiquitin ligase that localizes to the Z-line and M-line lattices of myofibrils. This protein plays an important role in the atrophy of skeletal and cardiac muscle and is required for the degradation of myosin heavy chain proteins, myosin light chain, myosin binding protein, and for muscle-type creatine kinase. [provided by RefSeq, Feb 2012]
UniProt Comments for TRIM63	MURF1: E3 ubiquitin ligase. Regulates proteasomal degradation of cardiac troponin I/TNNI3 and probably of other sarcomeric- associated proteins. May play a role in striated muscle atrophy and hypertrophy by regulating an anti-hypertrophic PKC-mediated signaling pathway. May regulate the organization of myofibrils through TTN in muscle cells. Protein type: EC 6.3.2.-; Ligase; EC 6.3.2.19; Ubiquitin ligase; Ubiquitin conjugating system Chromosomal Location of Human Ortholog: 1p34-p33 Cellular Component: microtubule; cytoplasm; M band; Z disc; nucleus Molecular Function: signal transducer activity; protein binding; zinc ion binding; ubiquitin-protein ligase activity; titin binding; ligase activity Biological Process: proteasomal ubiquitin-dependent protein catabolic process; skeletal muscle atrophy; muscle contraction; regulation of gene expression; protein ubiquitination; response to electrical stimulus involved in regulation of muscle adaptation; signal transduction
Research Articles on TRIM63	**1.** both MuRF1 and MAFbx are enriched in skeletal, cardiac, and smooth muscle--REVIEW
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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