TRIM5 Alpha (IN1) Blocking Peptide

PRODUCT OVERVIEW

Product Name	TRIM5 alpha, Blocking Peptide
Full Product Name	TRIM5 alpha (IN1) Peptide
Product Gene Name	TRIM5 blocking peptide
Product Synonym Names	RNF88; TRIM5alpha; RNF88; Tripartite motif-containing protein 5; RING finger protein 88; tripartite motif-containing 5
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store TRIM5 alpha (IN1) peptide at -20 degree C, stable for one year.
Antibody/Peptide Pairs	TRIM5 alpha peptide (MBS152729) is used for blocking the activity of TRIM5 alpha antibody (MBS150100)
Molecular Weight	29,677 Da
OMIM	608487
Species	Human
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Applications Tested/Suitable for TRIM5 blocking peptide	Blocking (BL)
Application Notes for TRIM5 blocking peptide	TRIM5 alpha peptide is used for blocking the activity of the TRIM5 alpha antibody.
Related Product Information for TRIM5 blocking peptide	MBS152729 is a blocking peptide targeting TRIM5. Also known as TRIM5 alpha (IN1) Peptide.
Other Notes	Small volumes of TRIM5 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRIM5. It may not necessarily be applicable to this product.

NCBI GI #	14719418
NCBI GeneID	85363
NCBI Accession #	NP_149023
UniProt Primary Accession #	Q9C035
UniProt Secondary Accession #	Q2MLV4; Q2MLV8; Q2MLV9; Q2MLW1; Q2MLW3; Q2MLW4; A6NGQ1; A8WFA8; D3DQS8; D3DQS9; G3GJY1
UniProt Related Accession #	Q9C035
GenBank Nucleotide #	NM_033034.1
NCBI Official Full Name	tripartite motif protein TRIM5 isoform alpha
NCBI Official Synonym Full Names	tripartite motif containing 5

NCBI Official Symbol	TRIM5
NCBI Official Synonym Symbols	RNF88; TRIM5alpha
UniProt Protein Name	Tripartite motif-containing protein 5
UniProt Synonym Protein Names	RING finger protein 88
Protein Family	Tripartite motif-containing protein
UniProt Gene Name	TRIM5
UniProt Synonym Gene Names	RNF88
UniProt Entry Name	TRIM5_HUMAN
NCBI Protein Information	tripartite motif-containing protein 5; ring finger protein 88; tripartite motif protein TRIM5; tripartite motif containing 5 transcript variant iota; tripartite motif containing 5 transcript variant kappa
NCBI Summary for TRIM5	The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. The protein forms homo-oligomers via the coilel-coil region and localizes to cytoplasmic bodies. It appears to function as a E3 ubiquitin-ligase and ubiqutinates itself to regulate its subcellular localization. It may play a role in retroviral restriction. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Dec 2009]
UniProt Comments for TRIM5	TRIM5: Isoform Alpha is a retrovirus restriction factor, which mediates species-specific, early block to retrovirus infection. Targets retroviral capsid soon after entry into the cell, and prevents reverse transcription of the virus RNA genome. Isoform Alpha trimers may make multiple contacts with the hexameric lattice of CA proteins which constitute the surface of retrovirion core, and somehow inactivate the virus. Restricts efficiently infection by N-MLV, but not HIV-1. May have E3 ubiquitin-protein ligase activity. Belongs to the TRIM/RBCC family. 6 isoforms of the human protein are produced by alternative splicing. Protein type: EC 6.3.2.19; Ubiquitin ligase; Ubiquitin conjugating system; EC 6.3.2.-; Ligase Chromosomal Location of Human Ortholog: 11p15 Cellular Component: cytoplasm; cytosol Molecular Function: identical protein binding; protein binding; protein homodimerization activity; zinc ion binding; ubiquitin-protein ligase activity; pattern recognition receptor activity; ligase activity Biological Process: positive regulation of I-kappaB kinase/NF-kappaB cascade; viral reproduction; positive regulation of MAPKKK cascade; negative regulation of virion penetration into host cell; cytokine and chemokine mediated signaling pathway; innate immune response; positive regulation of transcription factor activity; pattern recognition receptor signaling pathway; regulation of lipopolysaccharide-mediated signaling pathway; defense response to virus; activation of innate immune response; activation of NF-kappaB transcription factor
Research Articles on TRIM5	**1.** Data suggest that due to its lack of stability and inability to accumulate in pronounced cytoplasmic bodies likely due to its high self-ubiquitination activity, huTRIM5alpha was unable to block HIV-1 infection.
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