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

PRODUCT OVERVIEW

Product Name	TNF-R2, Blocking Peptide
Full Product Name	TNF Receptor II Blocking Peptide
Product Gene Name	TNF-R2 blocking peptide
Product Synonym Gene Name	TNFRSF1B
Product Synonym Names	CD120b; p75; p75 TNF receptor; p75TNFR; p80 TNF alpha receptor; p80 TNF-alpha receptor; Soluble TNFR1B variant 1; TBP-2; TBPII; TNF R II; TNF R2; TNF R75; TNF-R2; TNF-RII; TNFBR; TNFR-II; TNFR1B; TNFR2; TNFR80; TNFRII; Tnfrsf1b; TNR1B_HUMAN; Tumor necrosis factor beta receptor; Tumor necrosis factor receptor 2; Tumor necrosis factor receptor superfamily member 1B; Tumor necrosis factor receptor type II; Tumor necrosis factor-binding protein 2
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	TNF Receptor II peptide (MBS9614852) is used for blocking the activity of TNF Receptor II antibody (MBS9600299)
Molecular Weight	48,291 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (12227060..12269277). Location: 1p36.22
OMIM	191191
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 TNF-R2 blocking peptide	Blocking/Control
Related Product Information for TNF-R2 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 TNF-R2 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 TNF-R2 purchase	MBS9614852 is a blocking peptide targeting TNF-R2. Also known as TNF Receptor II Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TNF-R2. It may not necessarily be applicable to this product.

NCBI GI #	4507577
NCBI GeneID	7133

NCBI Accession #	NP_001057.1
UniProt Primary Accession #	P20333
UniProt Secondary Accession #	Q16042; Q6YI29; Q9UIH1; B1AJZ3
UniProt Related Accession #	P20333
GenBank Nucleotide #	NM_001066.2
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 1B
NCBI Official Synonym Full Names	tumor necrosis factor receptor superfamily, member 1B
NCBI Official Symbol	TNFRSF1B
NCBI Official Synonym Symbols	p75; TBPII; TNFBR; TNFR2; CD120b; TNFR1B; TNFR80; TNF-R75; p75TNFR; TNF-R-II
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 1B
UniProt Synonym Protein Names	Tumor necrosis factor receptor 2; TNF-R2; Tumor necrosis factor receptor type II; TNF-RII; TNFR-II; p75; p80 TNF-alpha receptor; CD_antigen: CD120b; INN: EtanerceptCleaved into the following 2 chains:Tumor necrosis factor receptor superfamily member 1b, membrane form; Tumor necrosis factor-binding protein 2Alternative name(s):TBP-2; TBPII
Protein Family	Tumor necrosis factor receptor superfamily
UniProt Gene Name	TNFRSF1B
UniProt Synonym Gene Names	TNFBR; TNFR2; TNF-R2; TNF-RII; TNFR-II
UniProt Entry Name	TNR1B_HUMAN
NCBI Protein Information	tumor necrosis factor receptor superfamily member 1B; TNF-R2; TNF-RII; p75 TNF receptor; p80 TNF-alpha receptor; soluble TNFR1B variant 1; tumor necrosis factor receptor 2; tumor necrosis factor beta receptor; tumor necrosis factor receptor type II; tumor
NCBI Summary for TNF-R2	The protein encoded by this gene is a member of the TNF-receptor superfamily. This protein and TNF-receptor 1 form a heterocomplex that mediates the recruitment of two anti-apoptotic proteins, c-IAP1 and c-IAP2, which possess E3 ubiquitin ligase activity. The function of IAPs in TNF-receptor signalling is unknown, however, c-IAP1 is thought to potentiate TNF-induced apoptosis by the ubiquitination and degradation of TNF-receptor-associated factor 2, which mediates anti-apoptotic signals. Knockout studies in mice also suggest a role of this protein in protecting neurons from apoptosis by stimulating antioxidative pathways. [provided by RefSeq, Jul 2008]
UniProt Comments for TNF-R2	TNF-R2: Receptor with high affinity for TNFSF2/TNF-alpha and approximately 5-fold lower affinity for homotrimeric TNFSF1/lymphotoxin-alpha. The TRAF1/TRAF2 complex recruits the apoptotic suppressors BIRC2 and BIRC3 to TNFRSF1B/TNFR2. This receptor mediates most of the metabolic effects of TNF-alpha. Isoform 2 blocks TNF-alpha-induced apoptosis, which suggests that it regulates TNF-alpha function by antagonizing its biological activity. Binds to TRAF2. Interacts with BMX. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, cytokine Chromosomal Location of Human Ortholog: 1p36.22 Cellular Component: cell soma; perinuclear region of cytoplasm; extracellular region; integral to membrane; plasma membrane; nucleus; lipid raft Molecular Function: protein binding; tumor necrosis factor receptor activity; ubiquitin protein ligase binding Biological Process: DNA damage response, signal transduction resulting in induction of apoptosis; tumor necrosis factor-mediated signaling pathway; negative regulation of inflammatory response; immune response; RNA destabilization; inflammatory response; positive regulation of membrane protein ectodomain proteolysis; aging
Research Articles on TNF-R2	**1.** In vivo malaria-induced TNF upregulates TNFRII on regulatory T-cells, which might increase their activity and therefore more effectively prevent in fl ammation.

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