RIPK3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	RIPK3, Blocking Peptide
Full Product Name	RIPK3 Blocking Peptide
Product Gene Name	RIPK3 blocking peptide
Product Synonym Names	Receptor interacting protein 3; Receptor interacting serine threonine kinase 3; Receptor interacting serine/threonine protein kinase 3; Receptor-interacting protein 3; Receptor-interacting serine/threonine-protein kinase 3; RIP 3; RIP like protein kinase 3; RIP-3; RIP-like protein kinase 3; RIPK 3; RIPK3; RIPK3_HUMAN
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	RIPK3 peptide (MBS9617996) is used for blocking the activity of RIPK3 antibody (MBS9613915)
Molecular Weight	518
OMIM	605817
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 RIPK3 blocking peptide	Blocking/Control
Related Product Information for RIPK3 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 RIPK3 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 RIPK3 purchase	MBS9617996 is a blocking peptide targeting RIPK3.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RIPK3. It may not necessarily be applicable to this product.

NCBI GI #	205371831
NCBI GeneID	11035
NCBI Accession #	Q9Y572.2
UniProt Primary Accession #	Q9Y572
UniProt Secondary Accession #	Q5J795; Q5J796; Q6P5Y1; B4DJL9; C4AM87

UniProt Related Accession #	Q9Y572
NCBI Official Full Name	Receptor-interacting serine/threonine-protein kinase 3
NCBI Official Synonym Full Names	receptor-interacting serine-threonine kinase 3
NCBI Official Symbol	RIPK3
NCBI Official Synonym Symbols	RIP3
UniProt Protein Name	Receptor-interacting serine/threonine-protein kinase 3
UniProt Synonym Protein Names	RIP-like protein kinase 3; Receptor-interacting protein 3; RIP-3
Protein Family	Receptor-interacting serine/threonine-protein kinase
UniProt Gene Name	RIPK3
UniProt Synonym Gene Names	RIP3; RIP-3
UniProt Entry Name	RIPK3_HUMAN
NCBI Protein Information	receptor-interacting serine/threonine-protein kinase 3; RIP-3; RIP-like protein kinase 3; receptor interacting protein 3; receptor-interacting protein 3
NCBI Summary for RIPK3	The product of this gene is a member of the receptor-interacting protein (RIP) family of serine/threonine protein kinases, and contains a C-terminal domain unique from other RIP family members. The encoded protein is predominantly localized to the cytoplasm, and can undergo nucleocytoplasmic shuttling dependent on novel nuclear localization and export signals. It is a component of the tumor necrosis factor (TNF) receptor-I signaling complex, and can induce apoptosis and weakly activate the NF-kappaB transcription factor. [provided by RefSeq, Jul 2008]
UniProt Comments for RIPK3	RIPK3: Promotes apoptosis. Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Binds TRAF2 and RIPK1 and is recruited to the TNFR-1 signaling complex. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.7.11.1; Protein kinase, Ser/Thr (non-receptor); Protein kinase, TKL; Kinase, protein; TKL group; RIPK family Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: mitochondrion; plasma membrane; cytosol Molecular Function: NF-kappaB-inducing kinase activity; protein serine/threonine kinase activity; identical protein binding; protein binding; transcription coactivator activity; protein complex binding; ATP binding; protein kinase activity Biological Process: spleen development; I-kappaB kinase/NF-kappaB cascade; regulation of activated T cell proliferation; thymus development; protein heterooligomerization; protein amino acid autophosphorylation; MyD88-independent toll-like receptor signaling pathway; T cell differentiation in the thymus; protein modification process; toll-like receptor 3 signaling pathway; signal transduction; lymph node development; activation of NF-kappaB transcription factor; regulation of T cell mediated cytotoxicity; regulation of adaptive immune response; regulation of interferon-gamma production; toll-like receptor signaling pathway; positive regulation of interferon type I production; activation of protein kinase activity; innate immune response; T cell homeostasis; positive regulation of ligase activity; toll-like receptor 4 signaling pathway; protein homooligomerization; positive regulation of oxidoreductase activity
Research Articles on RIPK3	**1.** RIP3-mediated MLKL phosphorylation, though important for downstream signaling, is dispensable for stable complex formation between RIP3 and MLKL.
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