Angiopoietin 2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	ANGPT2, Blocking Peptide
Full Product Name	Angiopoietin 2 Blocking Peptide
Product Gene Name	ANGPT2 blocking peptide
Product Synonym Names	AGPT 2; Agpt2; ANG 2; ANG-2; ANG2; Angiopoietin 2a; Angiopoietin 2B; Angiopoietin-2; Angiopoietin2; ANGP2_HUMAN; ANGPT 2; Angpt2; Tie2 ligand
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	Angiopoietin 2 peptide (MBS9625514) is used for blocking the activity of Angiopoietin 2 antibody (MBS9606797)
Molecular Weight	496
Chromosome Location	Chromosome: 8; NC_000008.10 (6357172..6420784, complement). Location: 8p23.1
OMIM	601922
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 ANGPT2 blocking peptide	Blocking/Control
Related Product Information for ANGPT2 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 ANGPT2 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 ANGPT2 purchase	MBS9625514 is a blocking peptide targeting ANGPT2. Also known as Angiopoietin 2 Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ANGPT2. It may not necessarily be applicable to this product.

NCBI GI #	169646749
NCBI GeneID	285
NCBI Accession #	NP_001112359.1
UniProt Primary Accession #	O15123

UniProt Secondary Accession #	Q9NRR7; Q9P2Y7; A0AV38; A8K205; B7ZLM7
UniProt Related Accession #	O15123
GenBank Nucleotide #	NM_001118887.1
NCBI Official Full Name	angiopoietin-2 isoform b
NCBI Official Synonym Full Names	angiopoietin 2
NCBI Official Symbol	ANGPT2
NCBI Official Synonym Symbols	ANG2; AGPT2
UniProt Protein Name	Angiopoietin-2
Protein Family	Angiopoietin
UniProt Gene Name	ANGPT2
UniProt Synonym Gene Names	ANG-2
UniProt Entry Name	ANGP2_HUMAN
NCBI Protein Information	angiopoietin-2; ANG-2; Tie2-ligand; angiopoietin-2B; angiopoietin-2a
UniProt Comments for ANGPT2	ANGPT2: Binds to TEK/TIE2, competing for the ANGPT1 binding site, and modulating ANGPT1 signaling. Can induce tyrosine phosphorylation of TEK/TIE2 in the absence of ANGPT1. In the absence of angiogenic inducers, such as VEGF, ANGPT2-mediated loosening of cell-matrix contacts may induce endothelial cell apoptosis with consequent vascular regression. In concert with VEGF, it may facilitate endothelial cell migration and proliferation, thus serving as a permissive angiogenic signal. Interacts with TEK/TIE2, competing for the same binding site as ANGPT1. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 8p23.1 Cellular Component: extracellular space; cell projection; extracellular region; plasma membrane; nucleus Molecular Function: protein binding; metal ion binding; receptor tyrosine kinase binding; receptor binding Biological Process: Tie receptor signaling pathway; organ regeneration; maternal process involved in pregnancy; negative regulation of blood vessel endothelial cell migration; signal transduction; response to organic cyclic substance; germ cell development; negative regulation of positive chemotaxis; response to radiation; negative regulation of angiogenesis; positive regulation of angiogenesis; response to mechanical stimulus; response to hypoxia; response to glucose stimulus; response to activity; angiogenesis; blood coagulation; leukocyte migration
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