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

PRODUCT OVERVIEW

Product Name	Apelin (APLN), Blocking Peptide
Full Product Name	Apelin Blocking Peptide
Product Gene Name	APLN blocking peptide
Product Synonym Gene Name	APEL
Product Synonym Names	AGTRL1 ligand; APEL; APEL_HUMAN; Apelin-13; APJ endogenous ligand; Apln; XNPEP2
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	Apelin peptide (MBS9622053) is used for blocking the activity of Apelin antibody (MBS9612109)
Molecular Weight	8,569 Da
Chromosome Location	Chromosome: X; NC_000023.10 (128779236..128788933, complement). Location: Xq25
OMIM	300297
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 APLN blocking peptide	Blocking/Control
Related Product Information for APLN 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 APLN 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 APLN purchase	MBS9622053 is a blocking peptide targeting APLN. Also known as Apelin Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	45120090
NCBI GeneID	8862
NCBI Accession #	NP_059109.3
UniProt Primary Accession #	Q9ULZ1

UniProt Secondary Accession #	Q4VY08; Q8WU89
UniProt Related Accession #	Q9ULZ1
GenBank Nucleotide #	NP_059109.3
NCBI Official Full Name	apelin preproprotein
NCBI Official Synonym Full Names	apelin
NCBI Official Symbol	APLN
NCBI Official Synonym Symbols	APEL; XNPEP2
UniProt Protein Name	Apelin
UniProt Synonym Protein Names	APJ endogenous ligand
Protein Family	Apelin
UniProt Gene Name	APLN
UniProt Synonym Gene Names	APEL
UniProt Entry Name	APEL_HUMAN
NCBI Protein Information	apelin; AGTRL1 ligand; APJ endogenous ligand
NCBI Summary for APLN	This gene encodes a peptide that functions as an endogenous ligand for the G protein coupled receptor APJ. The encoded protein is synthesized as a prepropeptide that is processed into biologically active C-terminal fragments. The peptide fragments activate different tissue specific signaling pathways that regulate diverse biological functions including fluid homeostasis, cardiovascular function and insulin secretion. This protein also functions as a coreceptor for the human immunodeficiency virus 1.[provided by RefSeq, Feb 2010]
UniProt Comments for APLN	apelin: Endogenous ligand for APJ, an alternative coreceptor with CD4 for HIV-1 infection. Inhibits HIV-1 entry in cells coexpressing CD4 and APJ. Apelin-36 has a greater inhibitory activity on HIV infection than other synthetic apelin derivatives. The oral intake in the colostrum and the milk could have a role in the modulation of the immune responses in neonates. May also have a role in the central control of body fluid homeostasis by influencing AVP release and drinking behavior. Belongs to the apelin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: Xq25 Cellular Component: extracellular space; extracellular region Molecular Function: G-protein-coupled receptor binding; hormone activity; apelin receptor binding; receptor binding Biological Process: lactation; immune response; signal transduction
Research Articles on APLN	**1.** The apelin/APJ system may be involved in the development of retinal neovascularization of ROP. The present results showed that the effect of apelin was related to HIF-1a but independent with VEGF.
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