Mouse Plau Blocking Peptide (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	Plau, Blocking Peptide
Full Product Name	Mouse Plau Blocking Peptide (C-term)
Product Gene Name	Plau blocking peptide
Product Synonym Names	Urokinase-type plasminogen activator; U-plasminogen activator; uPA; Urokinase-type plasminogen activator long chain A; Urokinase-type plasminogen activator short chain A; Urokinase-type plasminogen activator chain B; Plau
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 1 mg/ml.
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	Plau peptide (MBS9228945) is used for blocking the activity of Plau antibody (MBS9205303)
Molecular Weight	48,268 Da
Cellular Location	Secreted.
Related Product Information for Plau blocking peptide	MBS9228945 is a blocking peptide targeting Plau. Also known as Mouse Plau Blocking Peptide (C-term). Specifically cleaves the zymogen plasminogen to form the active enzyme plasmin.
Other Notes	Small volumes of Plau 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 Plau. It may not necessarily be applicable to this product.

NCBI GI #	137113
NCBI GeneID	18792
NCBI Accession #	P06869.1
UniProt Primary Accession #	P06869
UniProt Related Accession #	P06869
NCBI Official Full Name	Urokinase-type plasminogen activator
NCBI Official Synonym Full Names	plasminogen activator, urokinase
NCBI Official Symbol	Plau
NCBI Official Synonym Symbols	uPA; u-PA
UniProt Protein Name	Urokinase-type plasminogen activator
Protein Family	Urokinase-type plasminogen activator
UniProt Gene Name	Plau
UniProt Synonym Gene Names	U-plasminogen activator; uPA
UniProt Entry Name	UROK_MOUSE
NCBI Protein Information	urokinase-type plasminogen activator

UniProt Comments for Plau	uPA: Specifically cleave the zymogen plasminogen to form the active enzyme plasmin. Defects in PLAU are the cause of Quebec platelet disorder (QPD). QPD is an autosomal dominant bleeding disorder due to a gain-of-function defect in fibrinolysis. Although affected individuals do not exhibit systemic fibrinolysis, they show delayed onset bleeding after challenge, such as surgery. The hallmark of the disorder is markedly increased PLAU levels within platelets, which causes intraplatelet plasmin generation and secondary degradation of alpha-granule proteins. Belongs to the peptidase S1 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; EC 3.4.21.73; Protease; Secreted; Secreted, signal peptide Cellular Component: cell surface; extracellular space; focal adhesion; membrane Molecular Function: peptidase activity; protein binding; serine-type endopeptidase activity Biological Process: angiogenesis; fibrinolysis; positive regulation of cell migration; positive regulation of cell proliferation; positive regulation of smooth muscle cell migration; proteolysis; regulation of cell adhesion mediated by integrin; regulation of cell proliferation; regulation of receptor activity; regulation of smooth muscle cell migration; response to hypoxia; skeletal muscle regeneration; smooth muscle cell migration; wound healing
Research Articles on Plau	**1.** GM-CSF and uPA are required for Porphyromonas gingivalis-induced alveolar bone loss in a mouse periodontitis model.
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