Tissue-Type Plasminogen Activator (PLAT) Pig Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tissue-type plasminogen activator (PLAT), Recombinant Protein
Full Product Name	Recombinant Pig Tissue-type plasminogen activator (PLAT), partial
Product Gene Name	PLAT recombinant protein
Product Synonym Gene Name	PLAT
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	63,668 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8SQ23
Species	Sus scrofa (Pig)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PLAT recombinant protein	This gene encodes tissue-type plasminogen activator, a secreted serine protease which converts the proenzyme plasminogen to plasmin, a fibrinolytic enzyme. Tissue-type plasminogen activator is synthesized as a single chain which is cleaved by plasmin to a two chain disulfide linked protein. This enzyme plays a role in cell migration and tissue remodeling. Increased enzymatic activity causes hyperfibrinolysis, which manifests as excessive bleeding; decreased activity leads to hypofibrinolysis which can result in thrombosis or embolism. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.
Other Notes	Small volumes of PLAT recombinant protein 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 PLAT purchase	MBS1330748 is a recombinant protein targeting PLAT. Also known as Recombinant Pig Tissue-type plasminogen activator (PLAT), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	47522924
NCBI GeneID	397121
NCBI Accession #	NP_999219.1
UniProt Primary Accession #	Q8SQ23
UniProt Related Accession #	Q8SQ23

GenBank Nucleotide #	NM_214054.1
NCBI Official Full Name	tissue-type plasminogen activator
NCBI Official Symbol	PLAT
UniProt Protein Name	Tissue-type plasminogen activator
Protein Family	Tissue-type plasminogen activator
UniProt Gene Name	PLAT
UniProt Synonym Gene Names	t-PA; t-plasminogen activator; tPA
NCBI Protein Information	tissue-type plasminogen activator
UniProt Comments for PLAT	Converts the abundant, but inactive, zymogen plasminogen to plasmin by hydrolyzing a single Arg-Val bond in plasminogen. By controlling plasmin-mediated proteolysis, it plays an important role in tissue remodeling and degradation, in cell migration and many other physiopathological events ().
Research Articles on PLAT	**1.** The plasminogen/plasminogen activator/plasmin system is activated during gamete interaction and regulates the sperm entry into the oocyte.
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