

Recombinant Mouse Plasminogen Activator, Tissue

Cat. No. Plat-5463M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse PlatTwo-Chain Active Form is >95% two chain, >95% active.
Species	Mouse
Source	Insect Cells
Description	Active Two-chainRecombinant Mouse Tissue Plasminogen Activator (Plat/tPA) is produced by activation of the single-chain form with immobilizedPlasmin. Plat is a secreted serine protease whichconverts the proenzyme Plasminogen to the fibrinolytic enzyme Plasmin. Plat is synthesized as a single chain which is cleaved byPlasmin to a two chain disulfide linked protein. This enzyme plays a role incell migration and tissue remodeling. Increased enzymatic activity causeshyperfibrinolysis, which manifests as excessive bleeding; decreased activityleads to hypofibrinolysis which can result in thrombosis or embolism.
Form	Frozen Liquid in 0.4M HEPES Buffer + 0.1 M NaCl, pH 7.4
Molecular Weight	70 kDa
Concentration	2.0 mg/ml
Purity	>95% by SDS-PAGEanalysis
Storage	Store in workingaliquots at -80°C. Stable for 3 years from delivery. Avoid repeated freeze-thawcycles.

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OfficialSymbol	Plat
GENE INFORMATION	
Gene Name	Plat plasminogen activator,tissue [Mus musculus]
Synonyms	Plat; plasminogenactivator, tissue; tPA; AU020998; AW212668; D8Ert2e; MGC18508; tissue-typeplasminogen activator; t-plasminogen activator; EC 3.4.21.68
Gene ID	18791
mRNA Refseq	NM_008872
Protein Refseq	NP_032898
UniProt ID	P11214
Chromosome Location	8 A2; 8 9.0 cM
Pathway	Blood ClottingCascade; Complement and Coagulation Cascades; Dissolution of Fibrin Clot;Endochondral Ossification; Hemostasis; Senescence and Autophagy; SignalTransduction; Signaling by PDGF
Function	catalytic activity;hydrolase activity; peptidase activity; serine-type endopeptidase activity;serine-type peptidase activity
PDB rendering basedon 1a5h.	

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