

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-chain Recombinant Mouse Tissue Plasminogen Activator (Plat/tPA) is produced by activation of the single-chain form with immobilized Plasmin. Plat is a secreted serine protease which converts the proenzyme Plasminogen to the fibrinolytic enzyme Plasmin. Plat 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.
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-PAGE analysis
Storage	Store in working aliquots at -80°C. Stable for 3 years from delivery. Avoid repeated freeze-thaw cycles.

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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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