

Recombinant Human Plasminogen Activator, Tissue

Cat. No. PLAT-1290H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLATinactive has the active site mutation S478A which renders it catalytically inactive, and it is > 90% single chain and retains exosite binding as well as other properties of wild type PLAT.
Species	Human
Source	Insect Cells
Description	Tissue plasminogen activator (abbreviated tPA or PLAT) is a protein involved in the breakdown of blood clots. It is a serine protease found on endothelial cells, the cells that line the blood vessels. As an enzyme, it catalyzes the conversion of plasminogen to plasmin, the major enzyme responsible for clot breakdown. Because it works on the clotting system, PLAT is used in clinical medicine to treat only embolic or thrombotic stroke. Use is contraindicated in hemorrhagic stroke and head trauma.
Form	Liquid in 0.4 M HEPES + 0.1 M NaCl, pH 7.4
Molecular Weight	70.0 kDa
Concentration	2.0 mg/ml
Storage	Store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	PLAT

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GENE INFORMATION

Gene Name	PLAT plasminogen activator,tissue [Homo sapiens]
Synonyms	PLAT; plasminogenactivator, tissue; TPA; T-PA; DKFZp686I03148; tissue-type plasminogenactivator; alteplase; reteplase; OTTHUMP00000225783; OTTHUMP00000225784;OTTHUMP00000225785; OTTHUMP00000225786; OTTHUMP00000225787;OTTHUMP00000225788; t-plasminogen activator; plasminogen activator, tissuetype; tissue plasminogen activator (t-PA); EC 3.4.21.68
Gene ID	5327
mRNA Refseq	NM_000930
Protein Refseq	NP_000921
MIM	173370
UniProt ID	P00750
Chromosome Location	8p12
Pathway	Blood ClottingCascade; Complement and Coagulation Cascades; Dissolution of Fibrin Clot;Endochondral Ossification; Hemostasis; Selenium Pathway; Senescence andAutophagy; Signal Transduction; Signaling by PDGF; amb2 Integrin signaling
Function	peptidase activity;protein binding; serine-type endopeptidase activity
PDB rendering basedon 1a5h.	

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