

Recombinant Human Plasminogen Activator, Tissue

Cat. No. PLAT-1291H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLATinactive Non-Cleavable has a double mutation, is permanently single chain,and lacks catalytic activity.
Species	Human
Source	Insect Cells
Description	Tissue plasminogenactivator (abbreviated tPA or PLAT) is a protein involved in the breakdown ofblood clots. It is a serine protease found on endothelial cells, the cellsthat line the blood vessels. As an enzyme, it catalyzes the conversion ofplasminogen to plasmin, the major enzyme responsible for clot breakdown.Because it works on the clotting system, PLATis used in clinical medicine to treat only embolic or thrombotic stroke. Useis contraindicated in hemorrhagic stroke and head trauma.
Form	Liquid in 0.4 MHEPES + 0.1 M NaCl, pH 7.4
Molecular Weight	70.0 kDa
Concentration	2.0 mg/ml
Storage	Store in workingaliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	PLAT

GENE INFORMATION

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Gene Name	PLAT plasminogen activator,tissue [Homo sapiens]
Synonyms	PLAT; plasminogenactivator, tissue; TPA; T-PA; DKFZp686l03148; 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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