

Recombinant Human PLAT therapeutic protein(Retepase)

Cat. No. PLAT-P033H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human tissue plasminogen activator is genetically engineered to retain and delete certain portions of human tPA. The protein is a deletion mutein of human tPA formed by deleting various amino acids present in endogenous human tPA. It contains 355 of the 527 amino acids of native human tPA (amino acids 1-3 and 176-527), and retains the activity-related kringle-2 and serine protease domains of human tPA. Three domains are deleted from retavase – kringle-1, finger, and epidermal growth factor (EGF).
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Species	Human
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Source	CHO
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ProteinLength	355 Aa
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Description	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. The expression product is the active ingredient of Retavase and Activase.
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Molecular Mass	39.6 kDa
AA Sequence	SYQGNSDCYFGNGSAYRGTHSLTESGASCLPWNSMILIGKVYTAQNPSAQALGLGK HNYCRNPDGDAKPWC HVLKNRRLTWEYCDVPSCSTCGLRQYSQPQFRIKGGLFA DIASHPWQAAIFAKHRRSPGERFLCGGILISS CWILSAAHCFQERFPPHHLTIVILGRT YRVVPGEEEQKFEVEKYIVHKEFDDDTYDNDIALQLKSDSSRCA QESSVVRTVCLP PADLQLPDWTECELSGYGKHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTD NML CAGDTRSGGPQANLHDACQGDSSGGLVCLNDGRMTLVGIISWGLGCGQKDV PGVYTKVTNYLDWIRDNM RP
Endotoxin	< 1.0 EU per µg of the protein
Purity	>95%
Storage	Can be stored at +4 centigrade short term (1-2weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Alias	PLAT; TPA; T-PA; Human t-PA (residues 1-3 and 176-527); Reteplasa; Reteplase, recombinant

GENE INFORMATION

Gene Name	PLAT plasminogen activator, tissue [Homo sapiens]
Official Symbol	PLAT
Synonyms	PLAT; plasminogen activator, tissue; tissue-type plasminogen activator; alteplase; reteplase; t-plasminogen activator; plasminogen activator, tissue type; tissue plasminogen activator (t-PA); TPA; T-PA; DKFZp686I03148;

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Gene ID	5327
mRNA Refseq	NM_000930
Protein Refseq	NP_000921
MIM	173370
UniProt ID	P00750
Chromosome Location	8p11.21
Pathway	Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Dissolution of Fibrin Clot, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Hemostasis, organism-specific biosystem;
Function	peptidase activity; protein binding; serine-type endopeptidase activity; serine-type endopeptidase activity;