

Native Human PLAT

Cat. No. PLAT-30946TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human TPA Tissue Plasminogen Activator depleted plasma.
Species	Human
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.
Tissue specificity	Synthesized in numerous tissues (including tumors) and secreted into most extracellular body fluids, such as plasma, uterine fluid, saliva, gingival crevicular fluid, tears, seminal fluid, and milk.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: Sodium citrate
Storage	Store at -70°C

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**Sequence
Similarities**

Belongs to the peptidase S1 family.Contains 1 EGF-like domain.Contains 1 fibronectin type-I domain.Contains 2 kringle domains.Contains 1 peptidase S1 domain.

GENE INFORMATION

Gene Name [PLAT plasminogen activator, tissue \[Homo sapiens \]](#)

Official Symbol [PLAT](#)

Synonyms PLAT; plasminogen activator, tissue; tissue-type plasminogen activator;

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;

Function peptidase activity; protein binding; serine-type endopeptidase activity; serine-type

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endopeptidase activity;

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