

## Native Human PLAT

**Cat. No.** PLAT-30920TH **Lot. No.** (See product label)

### SPECIFICATION

|                           |   |
|---------------------------|---|
| <b>Product Overview</b>   | Full length Human TPA Tissue Plasminogen Activator labelled at the active site with ATA-Phe-Pro-Arg-CMK, MWt 70kDa.   |
| <b>Species</b>            | Human   |
| <b>Description</b>        | 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. |
| <b>Tissue specificity</b> | 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.  |
| <b>Form</b>               | Liquid  |
| <b>Purity</b>             | >95% by SDS-PAGE  |
| <b>Storage buffer</b>     | Preservative: None<br>Constituents: 0.4M HEPES, 0.1M Sodium chloride, pH 7.4  |
| <b>Storage</b>            | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw   |

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cycles.

**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.

**Full Length**

Full L.

## 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

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biosystem; Dissolution of Fibrin Clot, organism-specific biosystem;

**Function**

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

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