Native Human PLAT

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

SPECIFICATION

Product Overview	Full length Human TPA Tissue Plasminogen Activator labelled at the active site with ATA-Phe-Pro-Arg-CMK, MWt 70kDa.
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: NoneConstituents: 0.4M HEPES, 0.1M Sodium chloride, pH 7.4
Storage	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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