

Recombinant Human Tissue Plasminogen Activator Reference standard

Cat. No. PLAT-169H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The potency of the Standard was found to be 10000 IU per ampoule. Results suggest that the Standard for tissue plasminogen activator is a suitable standard for the melanoma cell-derived enzyme and the recombinant enzyme, and may be suitable for assaying tissue plasminogen activator from other sources. The potency of 10000 IU per ampoule for the Standard for tissue plasminogen activator was assigned using fibrin-based assay methods. Caution is advised when interpreting results using alternative assay methods. This Standard is intended for use as an activity standard in enzymatic assays. The Standard has not been calibrated as an antigen standard.

Species

Human

Enzyme Unit

10000 IU/ampoule.

Usage

No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. Tissue Plasminogen Activator (EC 3.4.21.68), also known as Plasminogen Activator, Tissue type and commonly abbreviated to tPA (or t-PA) is a serine protease that activates plasminogen to plasmin. Each ampoule contains the residue after freeze drying of 1ml solution of 60mM sodium phosphate buffer, pH7.4, containing 5 mg human albumin and approximately 20 microgram tissue plasminogen activator. This solution was filled into approximately 4000 ampoules with an inter-ampoule cv of 0.09%. After freeze drying and secondary desiccation, the average residual moisture was 1.0%.

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Notes	This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.
Stability	Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label.
Storage	Unopened ampoules should be stored in the dark at or below -20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

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;
Gene ID	5327
mRNA Refseq	NM_000930

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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;

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