

Tissue Plasminogen Activator (tPA) Antigen in Plasma Reference standard

Cat. No. PLAT-142H Lot. No. (See product label)

SPECIFICATION

Product Overview	Tissue plasminogen activator (tPA) is a marker for endothelial cell dysfunction and may be raised in subjects suffering from cardiovascular disease. This standard is intended to be used to calibrate methods designed to study tPA antigen in plasma by ELISA methods.
Species	Human
Enzyme Unit	A collaborative study was conducted which included 8 different commercial or in-house ELISA methods and a consensus geometric mean value from these methods determined that each ampoule of the standard contains 25 ng of tPA antigen in 1ml of human plasma.
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. The total contents of the ampoule should be reconstituted with 1.0ml distilled water and dissolved gently by swirling to avoid froth. The reconstituted reagent should be used as soon as possible after reconstitution.
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

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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 at -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

TPA; T-PA; tissue-type plasminogen activator; alteplase; reteplase; t-plasminogen activator; plasminogen activator, tissue type; tissue plasminogen activator (t-PA)

Gene ID

5327

mRNA Refseq

NM_000930

Protein Refseq

NP_000921

MIM

173370

UniProt ID

P00750

Chromosome

8p12

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Location	
Pathway	Complement and Coagulation Cascades, organism-specific biosystem; Dissolution of Fibrin Clot, organism-specific biosystem; Signal Transduction, organism-specific biosystem
Function	protein binding; serine-type endopeptidase activity; serine-type endopeptidase activity

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