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PLAT
Recombinant Human Tissue Plasminogen Activator

Catalog No.	CSI12667	**Quantity:**	20 µg
	CSI12668		100 µg
	CSI12669		1.0 mg

Alternate Names: Tissue-type plasminogen activator, tPA, t-PA, t-plasminogen activator, TPA, T-PA

Description: Tissue plasminogen activator (tPA) is a secreted serine protease which converts the proenzyme plasminogen to plasmin, a fibrinolytic enzyme. Plasminogen is synthesized as a single chain which is cleaved by PLAT into the two chain disulfide linked plasmin.

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.

UniProt ID: P00750

Gene ID: 5327

Source: CHO cells

Molecular Weight: 59 kDa (527 aa)

Formulation: Lyophilized from a sterile-filtered solution containing L-arginine, phosphoric acid and Tween-80.

Purity: > 98% as determined by SDS-PAGE and RP-HPLC analyses

Endotoxin Level: < 0.1 ng/µg of TPA

Biological Activity: 580,000 IU/mg

Reconstitution: **Centrifuge vial prior to opening**. Add sterile distilled water to the vial to fully solubilize the protein to a concentration of ≥ 0.1 mg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.

Storage & Stability: Stored at -20°C to -80°C for up to 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. For longer term, prepare aliquots and stored at -20°C to -80°C. It is recommended to add a carrier protein such as 0.1% HSA or BSA. **Avoid repeat freeze-thaw cycles.**

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