

SERPINE1, PLAT

Native Human PAI-1 / tPA Double Depleted Plasma

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|--------------------|-----------|------------------|--------|
| Catalog No. | CSI19816A | Quantity: | 10 mL |
| | CSI19816B | | 100 mL |

Alternate Names: Plasminogen Activator Inhibitor 1 and Tissue Plasminogen Activator

Description: Plasminogen Activator Inhibitor 1 (PAI-1) is the principal inhibitor of Tissue Plasminogen Activator (tPA) and Urokinase (uPA), the activators of Plasminogen and hence fibrinolysis. It is a serine protease inhibitor (serpin) protein (SERPINE1). PAI-1 is mainly produced by the endothelium, but is also secreted by other tissue types, such as adipose tissue.

Tissue Plasminogen Activator (tPA/PLAT) is a secreted serine protease which converts the proenzyme Plasminogen to Plasmin, a fibrinolytic enzyme. tPA 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.

Prepared from frozen Human plasma using immobilized antibodies to Human PAI-1 and Human tPA.

UniProt ID: P05121, P00750

Gene ID: 5054, 5327

Source: Human Plasma

Formulation: Frozen Liquid

Purity: <0.5 ng/ml PAI-1 Antigen
<0.5 ng/ml tPA Antigen

Storage & Stability: Store at -80°C for up to 1 year. Upon initial thaw, prepare working aliquots and store at -80°C. **Avoid repeated freeze-thaw cycles.**

Certification: Prepared from plasma shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

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