

PLAT Human tPA Active ELISA Kit

Catalog No. CSI19829A Quantity: 1 Plate CSI19829B 5 Plates

Alternate Names: T-PA, TPA

Description: Tissue Plasminogen Activator (PLAT/tPA) 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.

Functionally active tPA will form a covalent complex with the biotinylated Human PAI1 which is bound to the avidin on the plate. After appropriate washing steps, polyclonal Anti-Human tPA primary antibody binds to the captured tPA. Excess antibody is washed away and bound polyclonal antibody is then reacted with the HRP-conjugated secondary antibody. Following an additional washing step, TMB is used for color development at 450 nm. The amount of color development is directly proportional to the concentration of

active tPA in the sample.

Range: 0-1 IU/mL

Sensitivity: The minimum detectable level of tPA activity is 0.006 IU/mL.

Conversion Factor: 1 tPA IU = 1.45 ng

Sample Types: Samples of Human plasma (Citrate or EDTA), serum, or cell culture media.

Sample Size: 100 µl

Kit Content: 1. Microplate 96-wells coated with Avidin

2. Wash Buffer Concentrate

3. Standards4. Assay Diluent:

5. Biotinylated SERPINE1/PAI1

6. Rabbit Anti-Human SERPINE1/PAI1 Detection Ab

7. Anti-Rabbit HRP secondary Ab

8. TMB Substrate Reagent

Storage & Stability: Store kit components at 4°C. Store unopened plate and any unused microtiter strips in

the pouch with desiccant. Reconstituted standards and primary antibody may be stored at -70°C for later use. **DO NOT freeze/thaw the standards and primary antibody more than once.** All other unused kit components must be stored at 4°C. Kit should be

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used no later than the expiration date.

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