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Datasheet for ABIN7197374 PLAT Protein



| Overview | |
|---------------|---------------|
| Quantity: | 20 µg |
| Target: | PLAT |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |

Product Details

| Purpose: | Recombinant Human tPA/PLAT Protein |
|------------------|---|
| Sequence: | lle 311-Pro 562 |
| Characteristics: | The β chain (Ile 311-Pro 562) of mature human tPA (NP_000921.1) was obtained after cleavage of the N-terminal human IgG1 Fc region from the purified chimera. |
| Purity: | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin Level: | < 1.0 EU per μ g as determined by the LAL method. |

Target Details

| Target: | PLAT |
|-------------------|--|
| Alternative Name: | tPA/PLAT (PLAT Products) |
| Background: | Background: Tissue plasminogen activator (abbreviated tPA or PLAT), is traditionally viewed as a simple serine protease whose main function is to convert plasminogen into biologically active |
| | plasmin. As a protease, tPA plays a crucial role in regulating blood fibrinolysis, in maintaining |
| | the homeostasis of extracellular matrix and in modulating the post-translational activation of |

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| | growth factors. tPA is synthesized and secreted as a single chain polypeptide precursor which |
|---------------------|--|
| | is cleaved in turn by plasmin. Proteolytic cleavage at the C-terminal side of Arg275 generates |
| | the enzyme composed of two subunits, designated as α and β chains which are held together |
| | by a single disulfide bond. Unlike the other members of the chymotrypsin family, tPA has one |
| | particular distinction in that the catalytic efficiency of the single-chain enzyme is only slightly |
| | lower than that of the proteolytically cleaved form and is therefore not a true zymogen. tPA is |
| | found not only in the blood, where its primary function is as a thrombolytic enzyme, but also in |
| | the central nervous system (CNS). It participats in a number of physiological and pathological |
| | events in the CNS, as well as the role of neuroserpin as the natural regulator of tPA's activity in |
| | these processes. Increased or decreased activity of tPA leads to hyperfibrinolysis or |
| | hypofibrinolysis, respectively. In addition, as a cytokine, tPA plays a pivotal role in the |
| | pathogenesis of renal interstitial fibrosis through diverse mechanisms. Thus, as a fibrogenic |
| | cytokine, it promotes the progression of kidney diseases. |
| | Synonym: T-PA; TPA; t-plasminogen activator; Tissue plasminogen activator; |
| Molecular Weight: | 28 kDa |
| NCBI Accession: | NP_000921 |
| Pathways: | Autophagy, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling, |
| | SARS-CoV-2 Protein Interactome |
| Application Details | |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Lyophilized |
| Reconstitution: | Please refer to the printed manual for detailed information. |
| Buffer: | Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5 |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. |
| | Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted |
| | samples are stable at < -20°C for 3 months. |

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