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Recombinant Human Tissue-type plasminogen activator/TPA/PLAT Protein

Catalog No.: RP00595 Recombinant 2 Publications

Sequence Information

Species	Gene ID	Swiss Prot
Human	5327	P00750

Tags
C-6×His

Synonyms
PLAT;T-PA;TPA; TPA

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
60.1 kDa	55-80 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of 20mM MES,150mM NaCl,0.2mM $CaCl_2$, pH5.5. Contact us for customized product form or formulation.

Reconstitution
Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Tissue-type plasminogen activator (PLAT) is a protein that secreted into extracellular space. PLAT contains five domains:EGF-like domain, fibronectin type-I domain, 2 kringle domains and peptidase S1 domain. It belongs to the peptidase S1family. The main function of this protein is to convert plasminogen into biologically active plasmin. As a protease, PLATplays a crucial role in regulating blood fibrinolysis, maintaining the homeostasis of extracellular matrix and in modulatingthe post-translational activation of growth factors. PLAT is found not only in the blood, where its primary function is as athrombolytic enzyme, but also in the central nervous system (CNS). It participates in a number of physiological andpathological events in the CNS, as well as the role of neuroserpin as the natural regulator of PLAT's activity in theseprocesses. Increased or decreased activity of PLAT leads to hyperfibrinolysis or hypofibrinolysis, respectively. In addition, asa cytokine, PLAT plays a pivotal role in the pathogenesis of renal interstitial fibrosis through diverse mechanisms. Thus, as afibrogenic cytokine, it promotes the progression of kidney diseases.

Basic Information

Description
Recombinant Human Tissue-type plasminogen activator/TPA/PLAT Protein is produced by Human cells expression system. The target protein is expressed with sequence (Ser36-Pro562) of Human Tissue-type plasminogen activator/TPA/PLAT (Accession #P00750) fused with a 6×His tag at the C-terminus.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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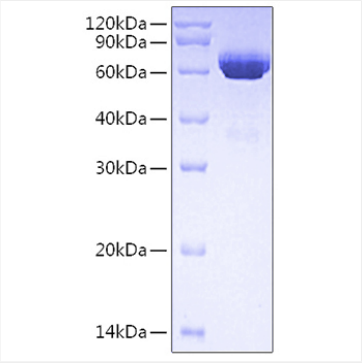
Validation Data



Recombinant Human Tissue-type plasminogen activator/TPA/PLAT Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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