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

Catalog No.: RP00595

Sequence Information

Species
Human

Gene ID
5327

Swiss Prot
P00750

Tags
C-6×His

Synonyms
PLAT,T-PA,TPA, TPA

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
60.1 kDa

Observed MW
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.

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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

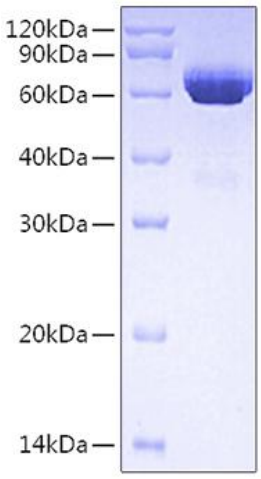
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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