

Recombinant Human t-Plasminogen activator/tPA protein (Myc Tag, His Tag)

Catalog Number: Eg0178

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
Myc Tag, His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human t-Plasminogen activator protein Ser36-Pro562 (Accession# AAH95403) with a Myc tag and a His tag at the C-terminus.

GeneID:

5327

Accession:

AAH95403

Predicted Molecular Mass:

64.0 kDa

SDS-PAGE:

55-75 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Plasminogen activator, tissue (PLAT, synonyms: TPA, T-PA) is a tissue-type plasminogen activator, a secreted serine protease which converts the proenzyme plasminogen to plasmin, a fibrinolytic enzyme. Tissue-type plasminogen activator is synthesized as a single chain which is cleaved by plasmin to a two chain disulfide linked protein (33 kDa and 32 kDa). PLAT 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.

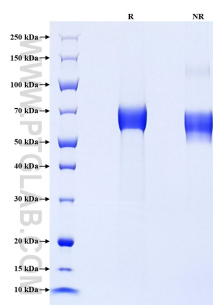
References

1. Mangé A. et al. (2016) J Proteomics. 142:114-121.
2. Chen S. et al. (2017) Sci Rep.7(1):6871.
3. Jiang H. et al. (2017) Transl Psychiatry. 7(4): e1079.

Synonyms

PLAT, tPA, Alteplase, AlteplaseReteplase, EC:3.4.21.68

Selected Validation Data



Purity of Recombinant Human t-Plasminogen Activator was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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