

# Recombinant human t-Plasminogen Activator/PLAT protein

Catalog Number: ATGP3504

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

311-562aa

### UniProt No.

P00750

### NCBI Accession No.

NP\_000921.1

### Alternative Names

Plasminogen activator, tissue type, PLAT, T-PA, TPA

## PRODUCT SPECIFICATION

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### Molecular Weight

29.2 kDa (261aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. 50mM MES buffer (pH 5.0) containing 5mM CaCl<sub>2</sub>, 1mM DTT, 0.5M NaCl, 30% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

PLAT, also known as plasminogen activator, tissue type, is serine protease secreted by many cell types that participate in biological processes, such as tissue restructuring, cell migration, and tumor metastasis. It used to dissolve coronary fibrin clots that are the proximal causes of acute myocardial infarction. It plays a crucial role in regulating blood fibrinolysis, in maintaining the homeostasis of extracellular matrix and in modulating the post-

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translational activation of growth factors. Recombinant human PLAT, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADP>IKGGLFA DIASHPWQAA IFAKHRRSPG ERFLEGGILI SSCWILSAAH CFQERFPPHH LTVILGRTYR VVPGEEEQKF  
EVEKYIVHKE FDDDTYDNDI ALLQLKSDSS RCAQESSVVR TVCLPPADLQ LPDWTECELS GYGKHEALSP FYSERLKEAH  
VRLYPSSRCT SQHLLNRTVT DNMLCAGDTR SGGPQANLHD ACQGDSGGPL VCLNDGRMTL VGIISWGLGC GQKDVPGVYT  
KVTNYLDWIR DNMRP<HHHHH H>

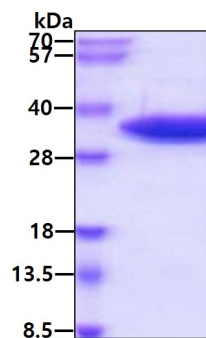
## General References

Orth K., et al. (1992) Proc Natl Acad Sci U S A. 89:7422-7426.

Hu K., et al. (2008) Front Biosci. 13:5174-5186.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain