

## Recombinant Human PLAT protein, His-tagged

Cat. No. PLAT-2737H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human PLAT aa. (Ser36~Thr126) fused with N-terminal His tag was produced in E. coli cells.

**Species** Human

**Source** E.coli

**ProteinLength** Ser36~Thr126

**Description** This gene encodes tissue-type plasminogen activator, a secreted serine protease that converts the proenzyme plasminogen to plasmin, a fibrinolytic enzyme. The encoded preproprotein is proteolytically processed by plasmin or trypsin to generate heavy and light chains. These chains associate via disulfide linkages to form the heterodimeric enzyme. This enzyme plays a role in cell migration and tissue remodeling. Increased enzymatic activity causes hyperfibrinolysis, which manifests as excessive bleeding, while decreased activity leads to hypofibrinolysis, which can result in thrombosis or embolism. Alternative splicing of this gene results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.

**Form** Freeze-dried powder

**Molecular Mass** 13kDa as determined by SDS-PAGE reducing conditions.

**Endotoxin** <1.0EU per 1g (determined by the LAL method)

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<b>Purity</b>	>95%
<b>Characteristic</b>	The isoelectric point is 7.6.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Concentration</b>	200µg/mL
<b>Storage buffer</b>	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
<b>Reconstitution</b>	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	PLAT plasminogen activator, tissue type [ Homo sapiens (human) ]
<b>Official Symbol</b>	PLAT
<b>Synonyms</b>	TPA; T-PA; alteplase; plasminogen/activator kringle; reteplase; t-plasminogen activator; tissue-type plasminogen activator
<b>Gene ID</b>	5327

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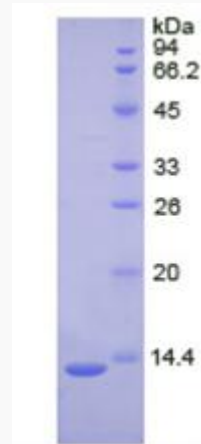
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mRNA Refseq [NM\\_000930.4](#)

Protein Refseq [NP\\_000921.1](#)

UniProt ID [P00750](#)

SDS-PAGE



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