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## Datasheet for ABIN7197370

# **PLAT Protein (Fc Tag)**



#### Overview

Quantity:	20 μg
Target:	PLAT
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLAT protein is labelled with Fc Tag.

# **Product Details**

Purpose:	Recombinant Human tPA/PLAT Protein (aa 311-562, Fc Tag)
Sequence:	lle 311-Pro 562
Characteristics:	A DNA sequence encoding the $\beta$ chain (Ile 311-Pro 562) of mature human tPA (NP_000921.1) was expressed with the fused Fc region of human IgG1 at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### **Target Details**

Target:	PLAT
Alternative Name:	tPA/PLAT (PLAT Products)
Background:	Background: Tissue plasminogen activator (abbreviated tPA or PLAT), is traditionally viewed as a simple serine protease whose main function is to convert plasminogen into biologically active
	plasmin. As a protease, tPA plays a crucial role in regulating blood fibrinolysis, in maintaining

the homeostasis of extracellular matrix and in modulating the post-translational activation of growth factors. tPA is synthesized and secreted as a single chain polypeptide precursor which is cleaved in turn by plasmin. Proteolytic cleavage at the C-terminal side of Arg275 generates the enzyme composed of two subunits, designated as  $\alpha$  and  $\beta$  chains which are held together by a single disulfide bond. Unlike the other members of the chymotrypsin family, tPA has one particular distinction in that the catalytic efficiency of the single-chain enzyme is only slightly lower than that of the proteolytically cleaved form and is therefore not a true zymogen. tPA is found not only in the blood, where its primary function is as a thrombolytic enzyme, but also in the central nervous system (CNS). It participats in a number of physiological and pathological events in the CNS, as well as the role of neuroserpin as the natural regulator of tPA's activity in these processes. Increased or decreased activity of tPA leads to hyperfibrinolysis or hypofibrinolysis, respectively. In addition, as a cytokine, tPA plays a pivotal role in the pathogenesis of renal interstitial fibrosis through diverse mechanisms. Thus, as a fibrogenic cytokine, it promotes the progression of kidney diseases.

Synonym: T-PA; TPA; t-plasminogen activator; Tissue plasminogen activator;

Molecular Weight:	54.8 kDa

NCBI Accession: NP\_000921

Pathways: Autophagy, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling,

SARS-CoV-2 Protein Interactome

#### **Application Details**

Restrictions: For Research Use only

#### Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.  Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.