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Datasheet for ABIN7197374 PLAT Protein



Overview	
Quantity:	20 µg
Target:	PLAT
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human tPA/PLAT Protein
Sequence:	lle 311-Pro 562
Characteristics:	The β chain (Ile 311-Pro 562) of mature human tPA (NP_000921.1) was obtained after cleavage of the N-terminal human IgG1 Fc region from the purified chimera.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g 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

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	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 α and β 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:	28 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.

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