

Recombinant Full Length Human PLAT Protein, His tagged

Cat. No. PLAT-01HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PLAT (1-562 aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	1-562 aa
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	Liquid
AASequence	QEIHARFRRGARSYQVICRDEKTQMIYQQHQSWLRPVLRSNRVEYCWCN SGRAQC HSVPVKSCSEPRCFNGGTCQQALYFSDFVCQCPEGFAGKCCEIDTRATCYEDQGIS YRGTWSTAESGAECTNWNSSALAQKPYSGRRPDAILRLGLGNHNYCRNPDRDSKP WCYVFKAGKYSSEFCSTPACSEGNSDCYFGNGSAYRGTHSLTESGASCLPWNSMI

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LIGKVYTAQNPSAQALGLGKHNYCRNPDGDAKPWCHVLKNRRLTWEYCDVPSCST
CGLRQYSQPQFRIKGGLFADIASHPWQAAIFAKHRRSPGERFLCGGILISSCWILSAA
HCFQERFPPHHLTIVILGRTYRVVPGEEEEQKFEVEKYIVHKEFDDDTYDNDIALQLKS
DSSRCAQESSVVRTVCLPPADLQLPDWTECELSGYGKHEALSPFYSERLKEAHVRL
YPSSRCTSQHLLNRTVTDNMLCAGDTRSGGPQANLHDACQGDSGGPLVCLNDGR
MTLVGIISWGLGCGQKDVPGVYTKVTNYLDWIRDNMRP

Molecular Mass	61.3 kDa
Endotoxin	< 1 EU/μg by LAL
Purity	> 90% by SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Storage Buffer	50mM MES buffer (pH 5.5) containing 40% glycerol, 5mM CaCl ₂ , 1mM DTT, 0.5M NaCl
Concentration	0.25 mg/mL (determined by absorbance at 280nm)

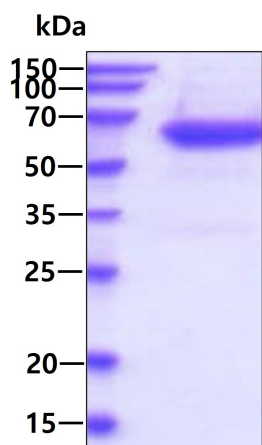
GENE INFORMATION

Gene ID	5327
Gene Name	PLAT plasminogen activator, tissue [Homo sapiens (human)]
Official Symbol	5327
Synonyms	PLAT; plasminogen activator, tissue; tissue-type plasminogen activator; alteplase; reteplase; t-plasminogen activator; plasminogen activator, tissue type; tissue

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	plasminogen activator (t-PA); TPA; T-PA; DKFZp686I03148;
mRNA Refseq	NM_000930
Official Symbol 2	PLAT
Gene ID 2	5327
Gene Name 2	PLAT plasminogen activator, tissue [Homo sapiens (human)]
mRNA Refseq 2	NM_000930
Protein Refseq 2	NP_000921
MIM 2	173370
UniProt ID 2	P00750
SDS-PAGE	

3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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