

Recombinant Human PLAT Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PLAT-1553H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLAT MS Standard C13 and N15-labeled recombinant protein (NP_127509) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	57.4 kDa
AA Sequence	MDAMKRGLCCVLLLCGAVFVSPSQEIHFRRGARSYQGCSEPRCFNGGTCQQAL YFSDFVCQCPEGFAGKCCEIDTRATCYEDQGISYRGTWSTAESGAECTNWNSSAL AQKPYSGRRPDAIRLGLGNHNYCRNPDRDSKPWCYVFKAGKYSSEFCSTPACSEG NSDCYFGNGSAYRGTHSLTESGASCLPWNSMILIGKVYTAQNPSAQAALGLGKHNYC

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RNPDGDAKPWCHVLKNRRLTWEYCDVPSCSTCGLRQYSQPQFRIKGGLFADIASH
 PWQAAIFAKHRRSPGERFLCGGILISSCWILSAAHCFQERFPPHHLTIVLGRTYRVVP
 GEEEQKFEVEKYIVHKEFDDDTYDNDIALQLKSDSSRCAQESSVVRTVCLPPADLQ
 LPDWTECELSGYGKHEALSPFYSERLKEAHVRLYPSSRCTSQHLLNRTVTDNMLCA
 GDTRSGGPQANLHDACQGDSGGPLVCLNDGRMTLVGIISWGLGCGQKDVPGVYTK
 VTNYLDWIRDNMRPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PLAT plasminogen activator, tissue type [Homo sapiens (human)]

Official Symbol PLAT

Synonyms PLAT; plasminogen activator, tissue; tissue-type plasminogen activator; alteplase; reteplase; t-plasminogen activator; plasminogen activator, tissue type; tissue plasminogen activator (t-PA); TPA; T-PA; DKFZp686I03148;

Gene ID 5327

mRNA Refseq NM_033011

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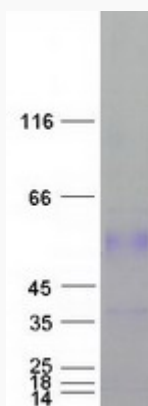
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_127509

MIM 173370

UniProt ID P00750

SDS-PAGE



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