

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

Cat. No. PLAU-6401H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PLAU MS Standard C13 and N15-labeled recombinant protein (NP_002649) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a secreted serine protease that converts plasminogen to plasmin. The encoded preproprotein is proteolytically processed to generate A and B polypeptide chains. These chains associate via a single disulfide bond to form the catalytically inactive high molecular weight urokinase-type plasminogen activator (HMW-uPA). HMW-uPA can be further processed into the catalytically active low molecular weight urokinase-type plasminogen activator (LMW-uPA). This low molecular weight form does not bind to the urokinase-type plasminogen activator receptor. Mutations in this gene may be associated with Quebec platelet disorder and late-onset Alzheimer's disease. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.
Molecular Mass	48.5 kDa
AA Sequence	MRALLARLLLCVLVVS DSKGSNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKK FGGQHCEIDKSKTCYEGNGHFYRGKASTDTMGRPCLPWNSATVLQQTYHAHRSDA LQLGLGKHNYCRNPDNRRRPWCYVQVGLKPLVQECMVHDCADGKKPSSPPEELK

 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

FQCGQKTLRPRFKIIGGEFTTIENQPWFAAIYRRHRGGSVTYVCGGSLISPCWVISAT
HCFIDYPPKKEDYIVYLGRSRLNSNTQGEMKFEVENLILHKDYSADTLAHHNDIALLKIR
SKEGRCAQPSRTIQTICLPSMYNDPQFGTSCEITGFGKENSTDYLYPEQLKMTVVKLI
SHRECQQPHYYGSEVTTKMLCAADPQWKTDSCQGDGGPLVCSLQGRMTLTGIVS
WGRGCALKDKPGVYTRVSHFLPWIRSHTKEENGLALTRTRPLEQKLISEEDLAANDI
LDYKDDDDKV

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 [PLAU plasminogen activator, urokinase \[Homo sapiens \(human\) \]](#)

Official Symbol [PLAU](#)

Synonyms PLAU; plasminogen activator, urokinase; urokinase-type plasminogen activator; UPA; URK; U-plasminogen activator; plasminogen activator, urinary; ATF; QPD; u-PA; BDPLT5;

Gene ID [5328](#)

mRNA Refseq [NM_002658](#)

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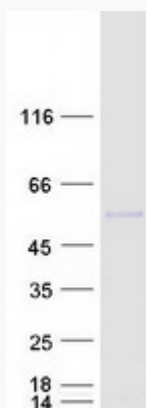
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Protein Refseq NP_002649

MIM 191840

UniProt ID P00749

SDS-PAGE



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