

Recombinant Human PLAU therapeutic protein(Urokinase)

Cat. No. PLAU-P009H Lot. No. (See product label)

SPECIFICATION

Product Overview	Low molecular weight form of human urokinase, that consists of an A chain of 2,000 daltons linked by a sulfhydryl bond to a B chain of 30,400 daltons.
Species	Human
Source	E.coli
ProteinLength	276 Aa
Description	This gene encodes a serine protease involved in degradation of the extracellular matrix and possibly tumor cell migration and proliferation. A specific polymorphism in this gene may be associated with late-onset Alzheimer's disease and also with decreased affinity for fibrin-binding. This protein converts plasminogen to plasmin by specific cleavage of an Arg-Val bond in plasminogen. Plasmin in turn cleaves this protein at a Lys-Ile bond to form a two-chain derivative in which a single disulfide bond connects the amino-terminal A-chain to the catalytically active, carboxy-terminal B-chain. This two-chain derivative is also called HMW-uPA (high molecular weight uPA). HMW-uPA can be further processed into LMW-uPA (low molecular weight uPA) by cleavage of chain A into a short chain A (A1) and an amino-terminal fragment. LMW-uPA is proteolytically active but does not bind to the uPA receptor. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. The expression product is the active ingredient of Abbokinase and Kinlytic.
Molecular Mass	31.1KDa

 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

AA Sequence	KPSSPPEELKFQCGQKTLRPRFKIIGGEFTTIENQPWFAAIYRRHRGGSVTYVCGGS LMSPCWVISATHCF IDYPKKEDYIVYLGRSRLNSNTQGEMKFEVENLILHKDYSADT LAHHNDIALLKIRSKEGRCAQPSRTIQT ICLPSMYNDPQFGTSCEITGFGKENSTDYL YPEQLKMTVVKLISHRECQQPHYYGSEVTTKMLCAADPQWK TDSCQGDSSGGLV CSLQGRMTLTGIVSWGRGCALKDKPGVYTRVSHFLPWIRSHTKEENGLAL
Endotoxin	< 1.0 EU per µg of the protein
Purity	>95%
Storage	Can be stored at +4 centigrade short term (1-2weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Alias	PLAU; ATF; QPD; u-PA; BDPLT5; Kinase (enzyme-activating), uro-urokinase; TCUK; Tissue culture urokinase; Two-chain urokinase; Urochinas; Urokinase; Urokinasum; Uroquinasa

GENE INFORMATION

Gene Name	PLAU plasminogen activator, urokinase [Homo sapiens]
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_001145031

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Protein Refseq	NP_001138503
MIM	191840
UniProt ID	P00749
Chromosome Location	10q24
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; DNA damage response (only ATM dependent), organism-specific biosystem; Dissolution of Fibrin Clot, organism-specific biosystem;
Function	peptidase activity; protein binding; serine-type endopeptidase activity;

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