

Recombinant Human Plasminogen Activator, Urokinase

Cat. No. PLAU-1296H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanLMW-uPA is produced in insect cell culture as the single-chain LMW form forPLAU and receptor binding studies.
Species	Human
Source	Insect Cells
Description	PLAU is involved indegradation of the extracellular matrix and possibly tumor cell migration andproliferation. This protein converts Plasminogen to Plasmin by specificcleavage of an Arg-Val bond in Plasminogen. Plasmin in turn cleaves thisprotein at a Lys-Ile bond to form a two-chain derivative in which a singledisulfide bond connects the amino-terminal A-chain to the catalyticallyactive, carboxy-terminal B-chain. This two-chain derivative is also calledHMW-uPA (high molecular weight uPA). HMW-uPA can be further processed intoLMW-uPA (low molecular weight uPA) by cleavage of chain A into a short chainA (A1) and an amino- terminal fragment. LMW-uPA is proteolytically active butdoes not bind to the uPA receptor.
Formulation	Frozen liquid in0.05M Sodium Acetate pH 5.0+0.1M NaCl+1mM EDTA.
Molecular Weight	54.0 kDa
Concentration	2.5 mg/mL
Volume	0.04 mL

 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

Storage	Store at -70°C.
OfficialSymbol	PLAU
GENE INFORMATION	
Gene Name	PLAU plasminogen activator,urokinase [Homo sapiens]
Synonyms	PLAU; plasminogenactivator, urokinase; ATF; QPD; UPA; URK; u-PA; BDPLT5; urokinase-type plasminogen activator; OTTHUMP00000019849;OTTHUMP00000019850; OTTHUMP00000019851; U-plasminogen activator; plasminogenactivator, urinary
Gene ID	5328
mRNA Refseq	NM_002658
Protein Refseq	NP_002649
MIM	191840
UniProt ID	P00749
Chromosome Location	10q24
Pathway	ATF-2transcription factor network; Blood Clotting Cascade; Complement andCoagulation Cascades; Complement and coagulation cascades; DNA damageresponse (only ATM dependent); Dissolution of Fibrin Clot; E2F transcriptionfactor network; Endochondral Ossification; FGF signaling pathway; Hemostasis;Osteopontin Signaling; Osteopontin-mediated events; Validated

 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

transcriptionaltargets of AP1 family members Fra1 and Fra2; Wnt Signaling Pathway;
amb2Integrin signaling

Function peptidaseactivity; protein binding; serine-type endopeptidase activity

**PDBrendering based
on 1c5w.**

 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