

## PLAU

### Native Human Urokinase

<b>Catalog No.</b>	CRU000A CRU000B CRU000C	<b>Quantity:</b>	100 µg 1.0 mg 5.0 mg
<b>Alternate Names:</b>	Urokinase-type plasminogen activator, U-plasminogen activator, uPA		
<b>Description:</b>	Urokinase Plasminogen Activator (uPA) is 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 ATF-uPA (Amino-Terminal Fragment uPA). LMW-uPA is proteolytically active but does not bind to the uPA Receptor (uPAR).		
<b>UniProt ID:</b>	P00749		
<b>Gene ID:</b>	5328		
<b>Source:</b>	Human urine		
<b>Molecular Weight:</b>	54.0 kDa (411 aa) dimer		
<b>Formulation:</b>	Lyophilized from a sterile-filtered 1 mg/ml solution containing phosphate buffer		
<b>Purity:</b>	>90% by SDS-PAGE		
<b>Biological Activity:</b>	1 nM Human uPA will cause a change in absorbance at 405nm of 0.001/minute at room temperature in 100 µl 50 mM Tris-HCl, 100 mM NaCl, pH 7.4, using 0.6 mM S2444 as the substrate.		
<b>Specific Activity:</b>	> 68,000 IU/mg, lot specific		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Reconstitute with sterile water to a concentration of at least 0.1 mg/ml. After complete solubilization of the protein, it may be further diluted to other aqueous solutions.		
<b>Storage &amp; Stability:</b>	Lyophilized product is stable at room temperature for shipping purpose. On receipt, store below -20°C. After reconstitution, store for up to 1 week at 2-8°C or in working aliquots at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		
<b>Contaminants:</b>	Free of: Hepatitis B surface antigen, Hepatitis C antibody and HIV-1 and -2.		

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