

PLAU

Native Human HMW Urokinase Plasminogen Activator HRP

Catalog No.	CRU112B CRU112C	Quantity:	100 µg 1 mg
Alternate Names:	U-plasminogen activator, uPA		
Description:	Urokinase-type Plasminogen Activator 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).		
UniProt ID:	P00749		
Gene ID:	5328		
Conjugate:	Horseradish peroxidase, HRP		
Source:	Human urine		
Molecular Weight:	54.0 kDa		
Formulation:	0.05 M Na Acetate, 0.1 M NaCl, 1 mM EDTA, 50% Glycerol, pH 5.0		
Purity:	>95% by SDS-PAGE analysis		
Extinction Coefficient:	$E^{0.1\%}_{280\text{nm}} = 1.36$		
Concentration:	≥ 1.0 mg/ml, lot specific		
Storage & Stability:	Store at -80°C for up to 1 year. Upon initial thaw, prepare working aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.		
Certification:	Prepared from donors negative for HbsAG, anti-HCV, anti-HBc, anti-HIV 1 & 2 by FDA approved tests.		

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