

PLG

Native Human Plasminogen

Catalog No.	CRP135	Quantity:	1.0 mg
Alternate Names:	Plasminogen, PLG		
Description:	Plasminogen is a serine protease that circulates in blood plasma as an inactive zymogen and is converted to the active protease, plasmin, by several plasminogen activators such as tissue plasminogen activator (tPA), urokinase plasminogen activator (uPA), kallikrein, and factor XII (Hageman factor). The conversion of plasminogen to plasmin involves the cleavage of the peptide bond between Arg-561 and Val-562. As a serine protease, plasmin cleaves many products in addition to fibrin-containing blood clots such as fibronectin, thrombospondin, laminin, and von Willebrand factor. Plasminogen is found at 12 mg per 100 ml normal plasma.		
Concentration:	Lot specific, ≥ 1 mg/ml prior to lyophilization.		
UniProt ID:	P00747		
Gene ID:	5340		
Source:	Human plasma		
Molecular Weight:	90-92 kDa		
Formulation:	Lyophilized from 20 mM Tris-HCl, pH 7.5, with 2 mM EDTA.		
Purity:	$\geq 95\%$ pure by SDS PAGE		
Extinction Coefficient:	1.17 for 0.1%, 280nm, 1cm pathway		
Biological Activity:	One unit of activity is defined as the amount of the enzyme which hydrolyzes one micromole of N-tosyl-L arginine-methyl ester in 30 minutes at 37°C, pH 8.0.		
Specific Activity:	≥ 120 units/mg		
Reconstitution:	Centrifuge vial prior to opening to ensure complete recovery of product. Add original volume (lot specific) of sterile distilled water followed by gentle mixing. Gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. Use the formulation buffer for further dilution.		
Storage & Stability:	Store lyophilized protein at -20°C to -80°C for 1 year. Upon reconstitution, store aliquots at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		
Infectious Disease Statement:	Donor plasma was found to be non-reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009.		

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