

KNG1

Human Kininogen Two Chain HMW Form

Catalog No.	CSI20182A CSI20182B	Quantity:	1.0 mg 5.0 mg
Alternate Names:	BDK, KNG		
Description:	Human Kininogen, two chain form HMW, is prepared by digestion of single chain kininogen.		
Concentration:	2.0 mg/ml		
Gene ID:	3827		
Source:	Human plasma		
Molecular Weight:	120 kDa		
Formulation:	Frozen liquid in 4 mM Sodium Acetate Buffer + 0.15 M NaCl, pH 5.3		
Purity:	>95% by SDS-PAGE analysis		
Endotoxin Level:	< 0.1 ng/μg of protein		
Storage & Stability:	Store at -80°C. Stable for 3 years from delivery. Avoid repeated freeze-thaw cycles.		
Background:	<p>HMW kininogen, synthesized by hepatocytes, is a multifunctional protein. It is the precursor protein of bradykinin. In addition it is a nonenzymatic cofactor of the contact activation system of factor XI, XII, and prekallikrein and a major extracellular cysteine proteinase inhibitor. Kininogen links prekallikrein to a negatively charged surface thereby allowing activation to kallikrein by surface bound Factor alpha-XIIa. Kininogen also forms a complex with Factor XI and accelerates its activation to XIa by alpha-XIIa. Kininogens inhibit systemic proteases which are thought to have a part in various diseases such as cancer, muscular dystrophy and joint disease. The two chain form is prepared by kallikrein digestion of single chain kininogen. Two chain kininogen repurified to remove traces of kallikrein and is kinin free. >95% pure by SDS-PAGE and shows complete reduction upon incubation with 2-mercaptoethanol.</p>		
Certification:	Prepared from plasma found negative by FDA accepted methods for Anti-HIV1/2, Anti-HTLV I & II, HBsAg, Anti-HCV, Syphilis, HBC Ab, HIV-1 p24 Ag or HIV-1 RNA, HCV RNA and HBV RNA. Donors are screened for CJD (Creutzfeldt-Jakob Disease).		

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