

KNG1

Native Human Kininogen-1, HMW 2-chain Form

Catalog No.	CSI20182A	Quantity:	1.0 mg
	CSI20182B		5.0 mg

Alternate Names: High molecular weight kininogen, HMWK, Alpha-2-thiol proteinase inhibitor, Fitzgerald factor

Description: High Molecular Weight 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 is repurified to remove traces of kallikrein and is kinin free.

UniProt ID: P01042

Gene ID: 3827

Source: Human plasma

Molecular Weight: 120 kDa

Formulation: 4 mM Sodium Acetate, 150 mM NaCl, pH 5.3

Purity: >95% by SDS-PAGE analysis, complete reduction with 2-mercaptoethanol

Concentration: ≥ 1.0 mg/ml, lot specific

Extinction Coefficient: $E^{0.1\%}_{280nm} = 0.7$

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 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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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com