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Datasheet for ABIN1097035

Kininogen Protein (KNG) (AA 19-427) (His tag)

Overview

Quantity:	50 µg
Target:	Kininogen (KNG)
Protein Characteristics:	AA 19-427
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Kininogen protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Kininogen-1/KNG1 (C-6His)
Sequence:	QESQSEEIDC NDKDLFKA VD AALKKYNSQN QSNNQFVLYR ITEATKTVGS DTFYSFKYEI KEGDCPVQSG KTWQDCEYKD AAKAATGECT ATVGKRSSTK FSVATQTCQI TPAEGPVVTA QYDCLGCVHP ISTQSPDLEP ILRHGIQYFN NNTQHSSLFM LNEVKRAQRQ VVAGLNFRMT YSIVQTNCSK ENFLFLTPDC KSLWNGDTGE CTDNAYIDIQ LRIASFQNC DIYPGKDFVQ PPTKICVGCP RDIPTNSPEL EETLTHITIK LNAENNATFY FKIDNVKKAR VQVVAGKKYF IDFVARETTC SKESNEELTE SCETKKLGQS LDCNAEVYVV PWEKKIYPTV NCQPLGMISL MKRPPGFSPF RSSRIGEIKE ETTSHLRSC EYKGRPPKAGA EPASEREVSL DHHHHHHH
Characteristics:	Recombinant Human Kininogen-1/KNG1 produced by transfected human cells is a secreted protein with sequence (Gln19-Ser427) of human KNG1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Kininogen (KNG)
Alternative Name:	kininogen (KNG Products)
Sub Type:	Fusionprotein
Background:	<p>Kininogen-1 is a secreted protein which contains three cystatin domains. There are two alternatively spliced forms, designated as the high molecular weight (HMW) and low MW (LMW) forms. Kininogen-1 plays a critical role in blood coagulation and inflammatory response. Kininogens are inhibitors of thiol proteases. Kininogen-1 participates in blood coagulation by helping to position optimally prekallikrein and factor XI next to factor XII, also inhibits the thrombin- and plasmin-induced aggregation of thrombocytes. The active peptide bradykinin that is released from Kininogen-1 shows a variety of physiological effects: influence in smooth muscle contraction, induction of hypotension, natriuresis and diuresis, decrease in blood glucose level. It is a mediator of inflammation and causes increase in vascular permeability, stimulation of nociceptors release of other mediators of inflammation. It has a cardioprotective effect. LMW-kininogen inhibits the aggregation of thrombocytes and doesn't involved in blood clotting.</p> <p>Alternative Names: Kininogen-1, Ipha-2-Thiol Proteinase Inhibitor, Fitzgerald Factor, High Molecular Weight Kininogen, HMWK, Williams-Fitzgerald-Flaujeac Factor, KNG1, BDK, KNG</p>
Molecular Weight:	46.89 kDa
UniProt:	P01042

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>

Handling

Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM Hac-NaAC, 150 mM NaCl, pH 4.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months