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## Datasheet for ABIN3093494 KNG1 Protein (AA 19-380) (His tag)

Image



## Overview

Quantity:	1 mg
Target:	KNG1
Protein Characteristics:	AA 19-380
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KNG1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

Sequence:	QESQSEEIDC NDKDLFKAVD AALKKYNSQN QSNNQFVLYR ITEATKTVGS DTFYSFKYEI KEGDCPVQSG KTWQDCEYKD AAKAATGECT ATVGKRSSTK FSVATQTCQI TPAEGPVVTA QYDCLGCVHP ISTQSPDLEP ILRHGIQYFN NNTQHSSLFM LNEVKRAQRQ VVAGLNFRIT YSIVQTNCSK ENFLFLTPDC KSLWNGDTGE CTDNAYIDIQ LRIASFSQNC DIYPGKDFVQ PPTKICVGCP RDIPTNSPEL EETLTHTITK LNAENNATFY FKIDNVKKAR VQVVAGKKYF IDFVARETTC SKESNEELTE SCETKKLGQS LDCNAEVYVV PWEKKIYPTV NCQPLGMISL MK
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human KNG1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>

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Product Details	
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> </ol>
	<ol> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	KNG1
Alternative Name:	KNG1 (KNG1 Products)

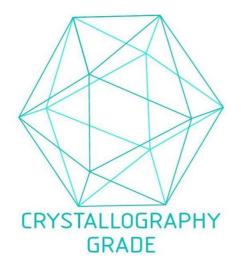
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(1) Kininogens are inhibitors of thiol proteases, (2) HMW-kininogen plays an important role in

Background:

	blood coagulation by helping to position optimally prekallikrein and factor XI next to factor XII,
	(3) HMW-kininogen inhibits the thrombin- and plasmin-induced aggregation of thrombocytes,
	(4) the active peptide bradykinin that is released from HMW-kininogen shows a variety of
	physiological effects: (4A) influence in smooth muscle contraction, (4B) induction of
	hypotension, (4C) natriuresis and diuresis, (4D) decrease in blood glucose level, (4E) it is a
	mediator of inflammation and causes (4E1) increase in vascular permeability, (4E2) stimulation
	of nociceptors (4E3) release of other mediators of inflammation (e.g. prostaglandins), (4F) it
	has a cardioprotective effect (directly via bradykinin action, indirectly via endothelium-derived
	relaxing factor action), (5) LMW-kininogen inhibits the aggregation of thrombocytes, (6) LMW-
	kininogen is in contrast to HMW-kininogen not involved in blood clotting.
Molecular Weight:	41.6 kDa Including tag.
UniProt:	P01042
Pathways:	ACE Inhibitor Pathway, Glycosaminoglycan Metabolic Process
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
	increase solubility. We will discuss all possible options with you in detail to assure that you
	receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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