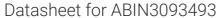
antibodies .- online.com





KNG1 Protein (AA 19-644) (His tag)



Image



Go to Product page

Overview

Quantity:	1 mg
Target:	KNG1
Protein Characteristics:	AA 19-644
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
MKRPPGFSPF RSSRIGEIKE ETTVSPPHTS MAPAQDEERD SGKEQGHTRR HDWGHEKQRK
HNLGHGHKHE RDQGHGHQRG HGLGHGHEQQ HGLGHGHKFK LDDDLEHQGG HVLDHGHKHK
HGHGHGKHKN KGKKNGKHNG WKTEHLASSS EDSTTPSAQT QEKTEGPTPI PSLAKPGVTV
TFSDFQDSDL IATMMPPISP APIQSDDDWI PDIQIDPNGL SFNPISDFPD TTSPKCPGRP
WKSVSEINPT TQMKESYYFD LTDGLS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Product Details special request, please contact us. Characteristics: · Made in Germany - from design to production - by highly experienced protein experts. · Human KNG1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis). 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: 1. 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. 2. 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.

Grade: Crystallography grade

0.22 µm filtered

Protein is endotoxin free.

Purity:

Sterility:

Endotoxin Level:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Target Details

Target:	KNG1
Alternative Name:	KNG1 (KNG1 Products)
Background:	(1) Kininogens are inhibitors of thiol proteases, (2) HMW-kininogen plays an important role in 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:	70.9 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	
Farmat:	Liquid
Format:	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

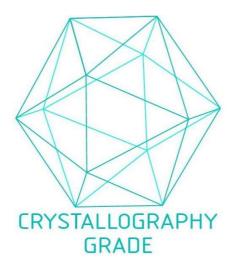


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process