Datasheet for ABIN7520255

KNG1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	KNG1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This KNG1 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Kininogen-1/KNG1 Protein
Sequence:	QESQSEEIDC NDKDLFKAVD AALKKYNSQN QSNNQFVLYR ITEATKTVGS DTFYSFKYEI KEGDCPVQSG KTWQDCEYKD AAKAATGECT ATVGKRSSTK FSVATQTCQI TPAEGPVVTA QYDCLGCVHP ISTQSPDLEP ILRHGIQYFN NNTQHSSLFM LNEVKRAQRQ VVAGLNFRMT YSIVQTNCSK ENFLFLTPDC KSLWNGDTGE CTDNAYIDIQ LRIASFSQNC DIYPGKDFVQ PPTKICVGCP RDIPTNSPEL EETLTHTITK LNAENNATFY FKIDNVKKAR VQVVAGKKYF IDFVARETTC SKESNEELTE SCETKKLGQS LDCNAEVYVV PWEKKIYPTV NCQPLGMISL MKRPPGFSPF RSSRIGEIKE ETTSHLRSCE YKGRPPKAGA EPASEREVS
Specificity:	Gln19-Ser427
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

Product Details

Biological Activity Comment:	Measured by its ability to inhibit papain cleavage of a fluorogenic peptide substrate Z-FR-AMC. The IC50 value approximately is 1 nM.

Target Details

Target:	KNG1
Alternative Name:	Kininogen-1/KNG1 (KNG1 Products)
Background:	Description: Kininogen-1 (KNG1) is also known as high molecular weight kininogen, Alpha-2-thiol proteinase inhibitor, Fitzgerald factor, Williams-Fitzgerald-Flaujeac factor, which can be cleaved into the following 6 chains:Kininogen-1 heavy chain, T-kinin, Bradykinin, Lysyl-bradykinin, Kininogen-1 light chain, Low molecular weight growth-promoting factor. Kininogen-1 is a secreted protein which contains three cystatin domains. HMW-kininogen plays an important role in blood coagulation by helping to position optimally prekallikrein and factor XI next to factor XII. As with many other coagulation proteins, the protein was initially named after the patients in whom deficiency was first observed.Patients with HWMK deficiency do not have a hemorrhagic tendency, but they exhibit abnormal surface-mediated activation of fibrinolysis. Name: BDK, BK, KNG,KNG1,BK,KNG
Gene ID:	3827
UniProt:	P01042-2
Pathways:	ACE Inhibitor Pathway, Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C

Handling

Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

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