Recombinant Human KNG1 Protein

Cat. No. KNG1-049H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human kininogen 1 (KNG1)(Gln19-Ser427), transcript variant 2, was expressed in HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	19-427 a.a.
Description	This gene uses alternative splicing to generate two different proteins- high molecular weight kininogen (HMWK) and low molecular weight kininogen (LMWK). HMWK is essential for blood coagulation and assembly of the kallikrein-kinin system. Also, bradykinin, a peptide causing numerous physiological effects, is released from HMWK. Bradykinin also functions as an antimicrobial peptide with antibacterial and antifungal activity. In contrast to HMWK, LMWK is not involved in blood coagulation. Three transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Nov 2014]
Molecular Mass	46.9 kDa
Endotoxin	< 0.1 EU per μg protein as determined by LAL test.
Purity	> 95% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	conditions.
Concentration	Resuspend the protein to the desired concentration in proper buffer.
Storage Buffer	Lyophilized from a 0.2 μM filtered solution of 20mM Hac-NaAC, 150mM NaCl, pH 4.0.

GENE INFORMATION

Gene Name	KNG1 kininogen 1 [Homo sapiens]
Official Symbol	KNG1
Synonyms	KNG1; kininogen 1; BDK, kininogen, KNG; kininogen-1; alpha 2 thiol proteinase inhibitor; bradykinin; HMWK; fitzgerald factor; high molecular weight kininogen; alpha-2-thiol proteinase inhibitor; williams-Fitzgerald-Flaujeac factor; BDK; KNG;
Gene ID	3827
mRNA Refseq	NM_000893
Protein Refseq	NP_000884
MIM	612358
UniProt ID	P01042

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