

# Recombinant Human KNG1 Protein

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant protein of human kininogen 1 (KNG1)(Gln19-Ser427), transcript variant 2, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 19-427 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | 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] |
| <b>Molecular Mass</b>   | 46.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Endotoxin</b>        | < 0.1 EU per µg protein as determined by LAL test.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | > 95% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Stability</b>        | Stable for at least 6 months from date of receipt under proper storage and handling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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conditions.

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| <b>Concentration</b>  | Resuspend the protein to the desired concentration in proper buffer.             |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 M filtered solution of 20mM Hac-NaAC, 150mM NaCl, pH 4.0. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | KNG1 kininogen 1 [ Homo sapiens ]                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | KNG1                                                                                                                                                                                                                                              |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 3827                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_000893                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_000884                                                                                                                                                                                                                                         |
| <b>MIM</b>             | 612358                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>      | P01042                                                                                                                                                                                                                                            |

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