

# Recombinant Human KNG1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** KNG1-4853H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	KNG1 MS Standard C13 and N15-labeled recombinant protein (NP_000884) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<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.
<b>Molecular Mass</b>	47.9 kDa
<b>AA Sequence</b>	MKLITILFLCSRLLLSLTQESQSEEIDCNDKDLFKAVDAALKKYNSQNSNNQFVLYRI TEATKTVGSDTFYSFKYEIKEGDCPVQSGKTWQDCEYKDAAKAATGECTATVGKRS STKFSVATQTCQITPAEGPVVTAQYDCLGCVHPISQTSPDLEPILRHGIQYFNNNTQH SSLFMLNEVKRAQRQVVAGLNFRMTYSIVQTNCSKENFLFLTPDCKSLWNGDTGEC TDNAYIDIQLRIASFQNCDIYPGKDFVQPPTKICVGCPRDIPTNSPELEETLHTITKL NAENNATFYFKIDNVKKARVQVVAGKKYFIDFVARETTCSKESNEELTESCETKKL

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QSLDCNAEVYVVPWEKKIYPTVNCQPLGMISLMKRPPGFSPFRSSRIGEIKEETTSH  
 LRSCEYKGRPPKAGAEPASEREVSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** KNG1 kininogen 1 [ Homo sapiens (human) ]

**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

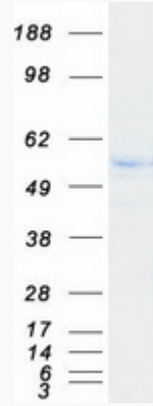
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UniProt ID P01042

SDS-PAGE



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