

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

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

SPECIFICATION

Product Overview	KNG1 MS Standard C13 and N15-labeled recombinant protein (NP_000884) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	47.9 kDa
AA Sequence	MKLITILFLCSRLLLSLTQESQSEEIDCNDKDLFKAVIDAALKKYNQSQNSNNQFVLYRI TEATKTVGSDTFYSFKYEIKEGDCPVQSGKTWQDCEYKDAAKAATGECTATVGKRS STKFSVATQTCQITPAEGPVVTAQYDCLGCVHPISTQSPDLEPILRHGIQYFNNNTQH SSLFMLNEVKRAQRQVVAGLNFRMTYSIVQTNCSENFLFLTPDCKSLWNGDTGEC TDNAYIDIQLRIASFQNCDIYPGKDFVQPPTKICVGCPRDIPTNSPELEETLHTITKL NAENNATFYFKIDNVKKARVQVVAGKKYFIDFVARETTCSKESNEELTESCETKKLG

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QSLDCNAEVYVVPWEKKIYPTVNCQPLGMISLMKRPPGFSPFRSSRIGEIKEETTSH
LRSCYKGRPPKAGAEPASEREVSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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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