

## Recombinant Human KNG1 Protein, DYKDDDDK-tagged

**Cat. No.** KNG1-60H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant protein from the full-length sequence of Homo sapiens kininogen 1 (KNG1), transcript variant 2 (NM_000893), with a DYKDDDDK tag was expressed in human cells.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<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. Infection with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) reduces or depletes angiotensin converting enzyme 2 (ACE2), which results in an increase in levels of des-Arg(9)-bradykinin, a bioactive metabolite of bradykinin that is associated with lung injury and inflammation. Three transcript variants encoding different isoforms have been found for this gene.
<b>Molecular Mass</b>	47.7 kDa
<b>Endotoxin</b>	Endotoxin level is < 0.1 ng/g of protein (<1EU /g)
<b>Purity</b>	>90% by SDS-PAGE gel and Coomassie Blue staining

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**Applications** Antigen, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies; For research & development use only!

**Storage Buffer** Purified protein formulated in a sterile solution of TBS buffer, pH7.4, without any preservatives

## GENE INFORMATION

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

**Official Symbol** KNG1

**Synonyms** KNG1; kininogen 1; BK; BDK; KNG; HMWK; kininogen-1; alpha-2-thiol proteinase inhibitor; bradykinin; fitzgerald factor; high molecular weight kininogen; williams-Fitzgerald-Flaujeac factor

**Gene ID** 3827

**mRNA Refseq** NM\_000893

**Protein Refseq** NP\_000884

**MIM** 612358

**UniProt ID** P01042

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