

Product datasheet for TP720432M

OriGene Technologies, Inc.

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Kininogen 1 (KNG1) (NM_000893) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human kiningeen 1 (KNG1), transcript variant 2

Species: Human
Expression Host: HEK293

Expression cDNA Clone

one Gln19-Ser427

or AA Sequence:

Tag:

C-His

Predicted MW: 46.9 kDa

Concentration: lot specific

Purity: >95% as determined by SDS-PAGE and Coomassie blue staining

Buffer: Provided lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl

Endotoxin: < 0.1 EU per μg protein as determined by LAL test

Reconstitution Method: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the

lyophilized protein in ddH2O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Storage: Store at -80°C.

Stability: Stable for at least 6 months from date of receipt under proper storage and handling

conditions.

RefSeq: NP 000884

Locus ID: 3827

UniProt ID: <u>P01042</u>, <u>P01042-2</u>, <u>C9JEX1</u>

Cytogenetics: 3q27.3

Synonyms: BDK; BK; HAE6; HMWK; KNG



Summary:

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. [provided by RefSeq, Sep 2020]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Complement and coagulation cascades

Product images:

