

OriGene Technologies, Inc.

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Product datasheet for TP308879

Kininogen 1 (KNG1) (NM_000893) Human Recombinant Protein

Product data:

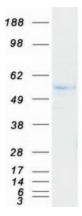
| Product Type: | Recombinant Proteins |
|--|---|
| Description: | Recombinant protein of human kininogen 1 (KNG1), transcript variant 2, 20 μg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC208879 protein sequence Red=Cloning site Green=Tags(s) |
| | MKLITILFLCSRLLLSLTQESQSEEIDCNDKDLFKAVDAALKKYNSQNQSNNQFVLYRITEATKTVGSDT FYSFKYEIKEGDCPVQSGKTWQDCEYKDAAKAATGECTATVGKRSSTKFSVATQTCQITPAEGPVVTAQY DCLGCVHPISTQSPDLEPILRHGIQYFNNNTQHSSLFMLNEVKRAQRQVVAGLNFRMTYSIVQTNCSKEN FLFLTPDCKSLWNGDTGECTDNAYIDIQLRIASFSQNCDIYPGKDFVQPPTKICVGCPRDIPTNSPELEE TLTHTITKLNAENNATFYFKIDNVKKARVQVVAGKKYFIDFVARETTCSKESNEELTESCETKKLGQSLD CNAEVYVVPWEKKIYPTVNCQPLGMISLMKRPPGFSPFRSSRIGEIKEETTSHLRSCEYKGRPPKAGAEP ASEREVS |
| | TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-Myc/DDK |
| Predicted MW: | 47.7 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | <u>NP 000884</u> |



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| | Kininogen 1 (KNG1) (NM_000893) Human Recombinant Protein – TP308879 |
|------------------|---|
| Locus ID: | 3827 |
| UniProt ID: | <u>P01042</u> |
| RefSeq Size: | 2143 |
| Cytogenetics: | 3q27.3 |
| RefSeq ORF: | 1281 |
| 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 Pathway | vs: Complement and coagulation cascades |

Product images:



Coomassie blue staining of purified KNG1 protein (Cat# TP308879). The protein was produced from HEK293T cells transfected with KNG1 cDNA clone (Cat# [RC208879]) using MegaTran 2.0 (Cat# [TT210002]).

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