

## **Product datasheet for PH308879**

## OriGene Technologies, Inc.

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## Kininogen 1 (KNG1) (NM\_000893) Human Mass Spec Standard

**Product data:** 

**Product Type:** Mass Spec Standards

**Description:** KNG1 MS Standard C13 and N15-labeled recombinant protein (NP\_000884)

Species:HumanExpression Host:HEK293

Expression cDNA Clone

RC208879

or AA Sequence: Predicted MW:

47.9 kDa

Protein Sequence: >RC208879 protein sequence

Red=Cloning site Green=Tags(s)

MKLITILFLCSRLLLSLTQESQSEEIDCNDKDLFKAVDAALKKYNSQNQSNNQFVLYRITEATKTVGSDT FYSFKYEIKEGDCPVQSGKTWQDCEYKDAAKAATGECTATVGKRSSTKFSVATQTCQITPAEGPVVTAQY DCLGCVHPISTQSPDLEPILRHGIQYFNNNTQHSSLFMLNEVKRAQRQVVAGLNFRMTYSIVQTNCSKEN FLFLTPDCKSLWNGDTGECTDNAYIDIQLRIASFSQNCDIYPGKDFVQPPTKICVGCPRDIPTNSPELEE TLTHTITKLNAENNATFYFKIDNVKKARVQVVAGKKYFIDFVARETTCSKESNEELTESCETKKLGQSLD CNAEVYVVPWEKKIYPTVNCQPLGMISLMKRPPGFSPFRSSRIGEIKEETTSHLRSCEYKGRPPKAGAEP

ASEREVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

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

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

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

**Storage:** Store at -80°C. Avoid repeated freeze-thaw cycles.

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

RefSeq: NP 000884

RefSeq Size: 2143 RefSeq ORF: 1281

Synonyms: BDK; BK; HAE6; HMWK; KNG





Locus ID: 3827

**UniProt ID:** P01042, P01042-2, C9|EX1

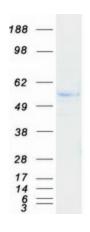
Cytogenetics: 3q27.3

**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:**



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]).