

Product datasheet for PH308879

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:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208879
Predicted MW:	47.9 kDa
Protein Sequence:	>RC208879 protein sequence Red=Cloning site Green=Tags(s)

MKLITILFLCSRLLLSLTQESQSEEIDCNDKDLFKAVIDAALKKYNSQNQSNQFVLYRITEATKTVGSDT
FYSFKYEIKEGDCPVQSGKTWQDCEYKDAKAATGECTATVGKRSSTKF SVATQTCQITPAEGPVVTAQY
DCLGCVHPISTQSPDLEPILRHGIQYFNNNTQHSSLFMLEVKRAQRQVVAGLNFRMTYSIVQTNCSKEN
FLFLTPDCKSLWNGDTGECTDNAYIDIQLRIASFQNCDIYPGKDFVQPPTKICVGCPRDIPTNSPELEE
TLTHTITKLN AENNA TFYFKIDNVKKARVQVVAGKKYFIDFVARETTCSKESNEELTESCETKKGQSLD
CNAEVVYVPWEKKIYPTVNCQPLGMISLMKRPPGFSPFRSSRIGEIKEETTSHLRSEYKGRPPKAGAEP
ASEREVS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	<u>NP_000884</u>
RefSeq Size:	2143
RefSeq ORF:	1281
Synonyms:	BDK; BK; HAE6; HMWK; KNG



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Locus ID: 3827

UniProt ID: [P01042](#), [P01042-2](#), [C9JEX1](#)

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]).