Kininogen-1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73267
Synonyms:	Kininogen-1; HMWK; KNG1; BDK; KNG
Species:	Mouse
Source:	HEK293
Accession:	NP_001095882.1 (E21-S480)
Gene ID:	16644
Molecular Weight:	70-95 kDa

PROPERTIES

AA Sequence	E E A Q E I D C N D E A V F Q A V D F S L K Q F N P G V K S G N Q Y M L H R V I E G T K T D G S P T F Y S F K Y L I K E G N C S A Q S G L A W Q D C D F K D A E E A A T G E C T A T V G K R E N E F F I V T Q T C K I A P S K A P I L K A Y F P C I G C V H A I S T D S P D L E P V L K H S I E H F N N N T D H S H L F T L R K V K S A H R Q V V A G L N F D I T Y T I V Q T N C S K E R F P S L H G D C V A L P N G D D G E C R G N L F M D I N N K I A N F S Q S C T L Y S G D D L V E A L P K P C P G C P R D I P V D S P E L K E V L G H S I A Q L N A E N D H P F Y Y K I D T V K K A T S Q V V A G T K Y V I E F I A R E T K C S K E S N T E L A E D C E I K H L G Q S L D C N A N V Y M R P W E N K V V P T V K C Q A L D M T E M A R R P P G F S P F R S V T V Q E T K E G R T D S D F I E D V V A T T P P Y D T G A H D D L I P D I H V Q P D S L S F K L I S D F P E A T S P K C P G R P W K P A S W K D P N T E T T E F S D F D L L D A L S
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 50 mM NaCl, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Kininogen-1 Protein, with predicted functions including cysteine-type endopeptidase inhibitor activity, protease binding activity, and signaling receptor binding activity, plays a crucial role in various biological processes. Its involvement spans antimicrobial humoral immune responses, negative regulation of blood coagulation, and the negative regulation of endopeptidase activity. Situated in the collagen-containing extracellular matrix, Kininogen-1 demonstrates a biased expression pattern, with notable levels in the liver at both embryonic (E18) and adult stages (RPKM 646.0 and 179.1, respectively), highlighting its significance in hepatic functions across different developmental stages.

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