

Plasma kallikrein/KLKB1 Protein, Human (HEK293, His, solution)

Cat. No.:	HY-P70249
Synonyms:	rHuPlasma kallikrein/KLKB1, His; Plasma kallikrein; Fletcher factor; Kininogenin; Plasma prekallikrein; KLKB1; KLK3
Species:	Human
Source:	HEK293
Accession:	P03952 (G20-A638)
Gene ID:	3818
Molecular Weight:	72-80 kDa

PROPERTIES

AA Sequence	<pre> G C L T Q L Y E N A F F R G G D V A S M Y T P N A Q Y C Q M R C T F H P R C L L F S F L P A S S I N D M E K R F G C F L K D S V T G T L P K V H R T G A V S G H S L K Q C G H Q I S A C H R D I Y K G V D M R G V N F N V S K V S S V E E C Q K R C T N N I R C Q F F S Y A T Q T F H K A E Y R N N C L L K Y S P G G T P T A I K V L S N V E S G F S L K P C A L S E I G C H M N I F Q H L A F S D V D V A R V L T P D A F V C R T I C T Y H P N C L F F T F Y T N V W K I E S Q R N V C L L K T S E S G T P S S S T P Q E N T I S G Y S L L T C K R T L P E P C H S K I Y P G V D F G G E E L N V T F V K G V N V C Q E T C T K M I R C Q F F T Y S L L P E D C K E E K C K C F L R L S M D G S P T R I A Y G T Q G S S G Y S L R L C N T G D N S V C T T K T S T R I V G G T N S S W G E W P W Q V S L Q V K L T A Q R H L C G G S L I G H Q W V L T A A H C F D G L P L Q D V W R I Y S G I L N L S D I T K D T P F S Q I K E I I I H Q N Y K V S E G N H D I A L I K L Q A P L N Y T E F Q K P I C L P S K G D T S T I Y T N C W V T G W G F S K E K G E I Q N I L Q K V N I P L V T N E E C Q K R Y Q D Y K I T Q R M V C A G Y K E G G K D A C K G D S G G P L V C K H N G M W R L V G I T S W G E G C A R R E Q P G V Y T K V A E Y M D W I L E K T Q S S D G K A Q M Q S P A </pre>
Biological Activity	Immobilized Human KLKB1, His Tag at 2 µg/mL(100 µl/wel) on the plate. Dose response curve for Anti-KLKB1 Antibody, hFc Tag with the EC ₅₀ of 25.1 ng/mL determined by ELISA.
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 10% Glycerol, pH 8.0 or 20 mM NaAc, 150 mM NaCl, pH 5.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Shipping

Shipping with dry ice

DESCRIPTION**Background**

Plasma kallikrein (KLKB1) is an enzyme with the ability to cleave Lys-Arg and Arg-Ser bonds, facilitating the release of bradykinin from HMW kininogen. Additionally, KLKB1 plays a pivotal role in the activation of factor XII through a reciprocal reaction, particularly following its binding to a negatively charged surface. Beyond its involvement in the kinin system, this enzyme may contribute to the renin-angiotensin system by converting prorenin into renin.

Caution: Product has not been fully validated for medical applications. For research use only.

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