

Plasma kallikrein/KLKB1 Protein, Rat (P.pastoris, His)

Cat. No.:	HY-P71748
Synonyms:	Klk1; Klk3; PkPlasma kallikrein; EC 3.4.21.34; Fletcher factor; Kininogenin
Species:	Rat
Source:	P. pastoris
Accession:	P14272 (391I-638A)
Gene ID:	25048
Molecular Weight:	Approximately 34 kDa

PROPERTIES

AA Sequence	<div> <div>I V G G T N S S L G</div> <div>E W P W Q V S L Q V</div> <div>K L V S Q N H M C G</div> <div>G S I I G R Q W I L</div> <div>T A A H C F D G I P</div> <div>Y P D V W R I Y G G</div> <div>I L N L S E I T N K</div> <div>T P F S S I K E L I</div> <div>I H Q K Y K M S E G</div> <div>S Y D I A L I K L Q</div> <div>T P L N Y T E F Q K</div> <div>P I C L P S K A D T</div> <div>N T I Y T N C W V T</div> <div>G W G Y T K E R G E</div> <div>T Q N I L Q K A T I</div> <div>P L V P N E E C Q K</div> <div>K Y R D Y V I T K Q</div> <div>M I C A G Y K E G G</div> <div>I D A C K G D S G G</div> <div>P L V C K H S G R W</div> <div>Q L V G I T S W G E</div> <div>G C A R K E Q P G V</div> <div>Y T K V A E Y I D W</div> <div>I L E K I Q S S K E</div> <div>R A L E T S P A</div> </div>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
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	The Plasma kallikrein/KLKB1 protein exhibits enzymatic prowess, specifically cleaving Lys-Arg and Arg-Ser bonds. Upon binding to a negatively charged surface, it triggers a reciprocal activation of factor XII. Additionally, the protein facilitates the liberation of bradykinin from HMW kininogen. Notably, it is implicated in the renin-angiotensin system, potentially contributing to the conversion of prorenin into renin. This multifaceted functionality highlights the protein's involvement in
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diverse physiological processes.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA