

## Plasma kallikrein/KLKB1 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700772
Synonyms:	Plasma kallikrein; PKK; KLK3; KLKB1; Fletcher factor; Kininogenin
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5VTJ9 (G20-A638)
Gene ID:	102142369
Molecular Weight:	70-90 kDa

### PROPERTIES

Biological Activity	Measured by its ability to cleave a fluorogenic peptide substrate Pro-Phe-Arg-7-amido-4-methylcoumarin (PFR-AMC). The specific activity is 1133 pmol/min/ $\mu$ g.
Appearance	Lyophilized powder
Formulation	Lyophilized from 0.22 $\mu$ m filtered solution in 20 mM NaAc, 150 mM NaCl (pH 5.0). Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> 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	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.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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