



## Synonym

Fletcher factor,kallikrein B, plasma (Fletcher factor) 1,kininogenin,KLK3  
 plasma kallikrein,KLKB1,plasma kallikrein heavy chain,plasma kallikrein light chain,Plasma Kallikrein,Plasma Prekallikrein,PPK,KLKB1

## Source

Mouse Plasma Kallikrein/KLKB1, His Tag(KL1-M52H9) is expressed from human 293 cells (HEK293). It contains AA Gly 20 - Ala 638 (Accession # [P26262-1](#)).

Predicted N-terminus: Gly 20

## Molecular Characterization

Plasma Kallikrein/KLKB1(Gly 20 - Ala 638)	Poly-his
P26262-1	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 71.1 kDa. The protein migrates as 33 kDa,50 kDa and 80 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE).

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

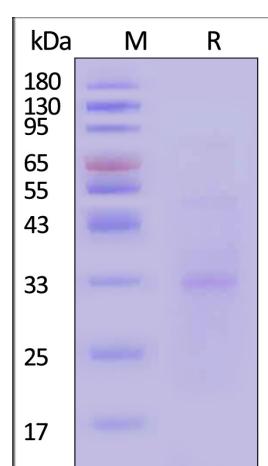
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Mouse Plasma Kallikrein/KLKB1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH<sub>2</sub>,The specific activity is >300 pmol/min/ $\mu$ g (QC tested).

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**Background**

Human Plasma Kallikrein, a serine protease, is synthesized in the liver and circulates in the plasma by binding to high molecular weight (HMW) kininogen or as a free zymogen. The enzyme cleaves Lys-Arg and Arg-Ser bonds. It activates, in a reciprocal reaction, factor XII after its binding to a negatively charged surface. It also releases bradykinin from HMW kininogen and may also play a role in the renin-angiotensin system by converting prorenin into renin.

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