



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

Human Plasma Kallikrein/KLKB1, His Tag(KL1-H52H9) is expressed from human 293 cells (HEK293). It contains AA Gly 20 - Ala 638 (Accession # [P03952-1](#)).

Predicted N-terminus: Gly 20

Molecular Characterization

Plasma Kallikrein/KLKB1(Gly 20 - Ala 638)	Poly-his
P03952-1	

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

The protein has a calculated MW of 71.1 kDa. The protein migrates as 70-90 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Supplied as 0.2 μ m filtered solution in 50mM Tris, 150mM NaCl, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

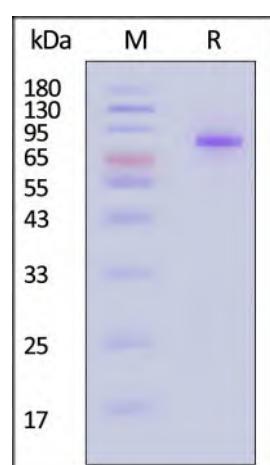
Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

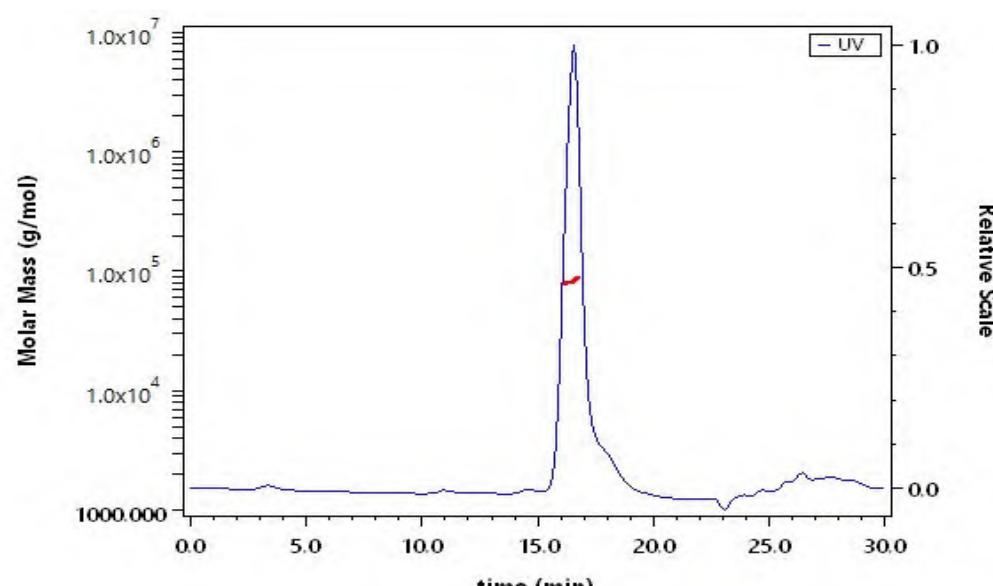
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE



Human 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](#)).

SEC-MALS



The purity of Human Plasma Kallikrein/KLKB1, His Tag (Cat. No. KL1-H52H9) is more than 90% and the molecular weight of this protein is around 75-90 kDa verified by SEC-MALS.

[Report](#)

Bioactivity

Measured by its ability to cleave a fluorogenic peptide substrate Pro-Phe-Arg-7-amido-4-methylcoumarin (PFR-AMC). The specific activity is >1,000 pmol/min/ μ 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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