

Cynomolgus Plasma Kallikrein / KLKB1 Protein, His Tag (active enzyme, MALS verified)

Catalog # KL1-C52H3



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

Cynomolgus Plasma Kallikrein Protein, His Tag (KL1-C52H3) is expressed from human 293 cells (HEK293). It contains AA Gly 20 - Ala 638 (Accession # [A0A2K5VTJ9](#)).

Predicted N-terminus: Gly 20

Molecular Characterization

Plasma Kallikrein/KLKB1(Gly 20 - Ala 638) A0A2K5VTJ9	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 71.0 kDa. The protein migrates as 80-95 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 µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Supplied as 0.2 µm filtered solution in 50 mM Tris, 150 mM 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.

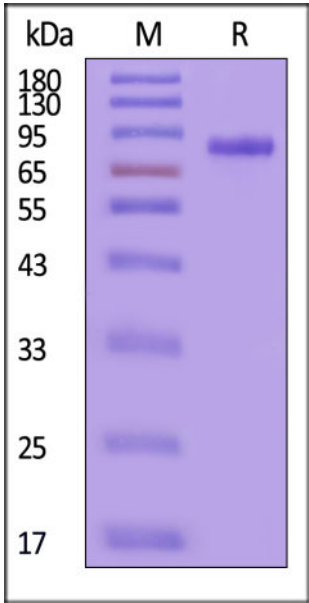
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

ACRO Quality Management System

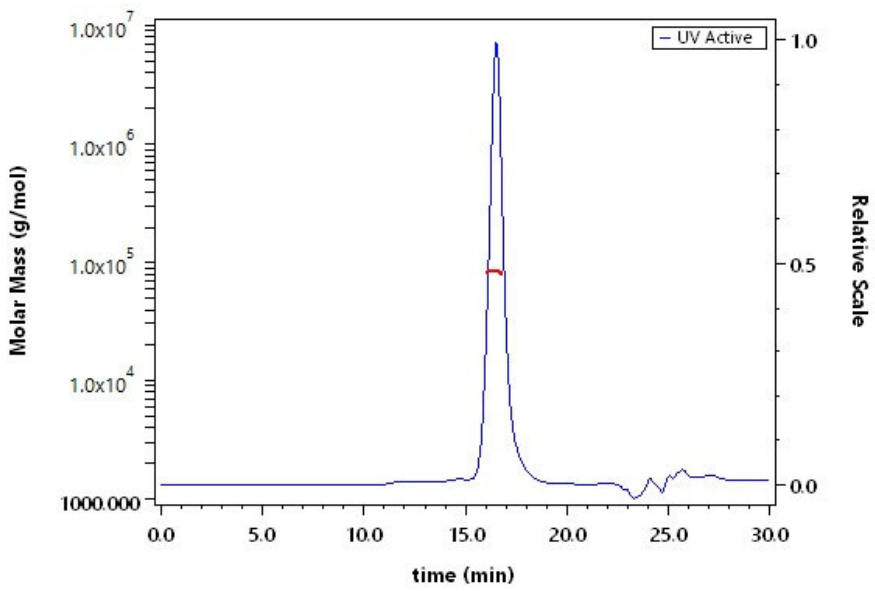
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Cynomolgus Plasma Kallikrein Protein, 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 Cynomolgus Plasma Kallikrein Protein, His Tag (Cat. No. KL1-C52H3) is more than 95% and the molecular weight of this protein is around 75-95 kDa verified by SEC-MALS.

Bioactivity

Measured by its ability to cleave a fluorogenic peptide substrate Pro-Phe-Arg-7-amido-4-methylcoumarin (PFR-AMC). The specific activity is >1,700 pmol/min/μg (QC tested).

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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