

Recombinant Human Plasma Kallikrein/KLKB1 Protein

Catalog No.: RP02872

Sequence Information

Species	Gene ID
Human	3818
Swiss Prot	Tags
P03952	C-His

Synonyms

KLKB1, KLK3, PKK, PKKD, PPK

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by HPLC.

Calculated MW/Observed MW

70.3 kDa 72-80 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of 20mM NaAc, 150mM NaCl, pH5.0.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in 20mM NaAc, 150mM NaCl, pH5.0. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Plasma kallikrein, also known as Fletcher factor or kallikrein B1 (KLKB1), is a serine endopeptidase, like its homologs tissue kallikrein and kallikrein-related peptidases (KLKs). Its physiological role is to catalyze the release of kinins and other vasoactive peptides.

Basic Information

Description

Recombinant Human Plasma Kallikrein/KLKB1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly20-Ala638) of human Plasma Kallikrein/KLKB1 (Accession #NP_000883.2) fused with 6×His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

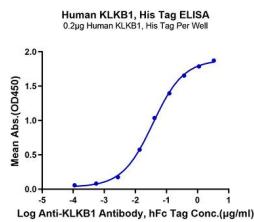
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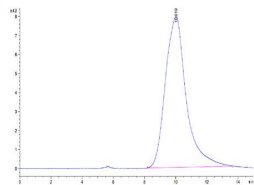
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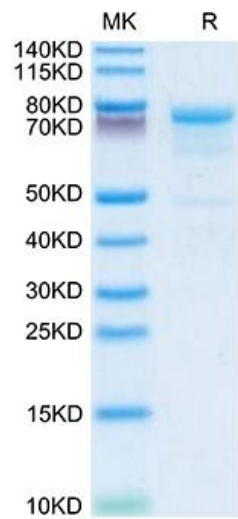
Validation Data



Immobilized Human KLKB1, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-KLKB1 Antibody, hFc Tag with the EC50 of 36.7ng/ml determined by ELISA.



The purity of Human Plasma Kallikrein/KLKB1 Protein (Cat.RP02872LQ) was greater than 95% as determined by SEC-HPLC.



Recombinant Human Plasma Kallikrein/KLKB1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.