

KLKB1 Protein, Human, Recombinant (His)

General Information

Synonyms:	PKK;Kininogenin;KLK3;KLKB1;Fletcher factor;Plasma kallikrein
Protein Construction:	Gly20-Ala638
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P03952
Molecular Weight:	70.3 kDa (predicted). Due to glycosylation, the protein migrates to 72-80 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	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 33.8ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM NaAc, 150 mM NaCl (pH 5.0). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in 20mM NaAc,150mM NaCl (pH 5.0). The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Reference

Abrera-Abeleda MA, et al. Mesangial immune complex glomerulonephritis due to complement factor D deficiency. *Kidney Int.* 2007 Jun;71(11):1142-7. doi: 10.1038/sj.ki.5002235. Epub 2007 Apr 4. PMID: 17410102.

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