Human KLKB1 Protein, Ultra Low Endotoxin

Cat. No. KLK-HM1B1-UL

Description

Source	Recombinant Human KLKB1 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Gly20-Ala638.
Accession	P03952
Molecular Weight	The protein has a predicted MW of 70.3 kDa. Due to glycosylation, the protein migrates to 72-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.001 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

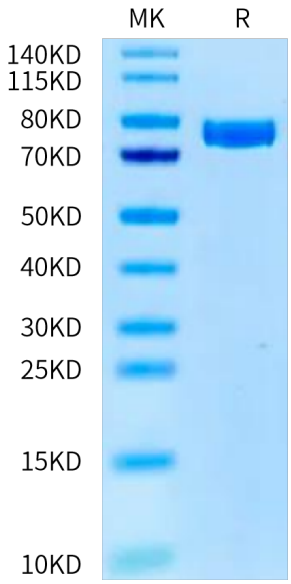
Formulation	Lyophilized from 0.22μm filtered solution in 20mM NaAc,150mM NaCl (pH 5.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in 20mM NaAc,150mM NaCl (pH 5.0). Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

Assay Data

Bis-Tris PAGE



Human KLKB1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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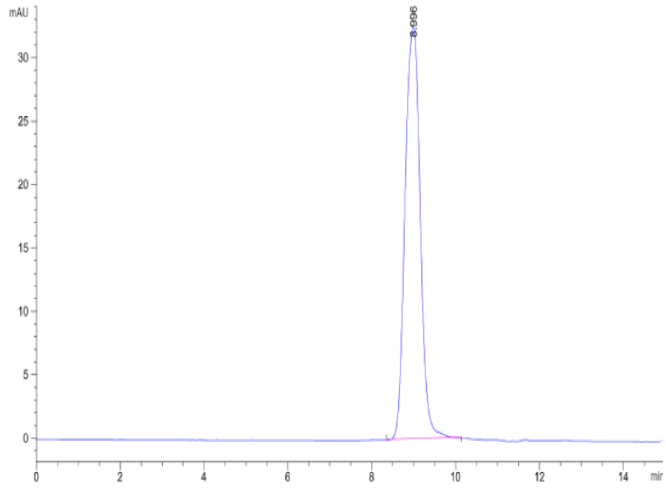
Assay Data



The purity of Human KLKB1 is greater than 95% as determined by SEC-HPLC.

Bioactivity Data

Measured by its ability to cleave a flourogenic peptide substrate Pro-Phe-Arg-7-amido-4-methylcoumarin (PFR-AMC). The specific activity is > 1000 pmol/min/μg.