

# Recombinant Full Length Human KLKB1 Protein, GST-tagged

Cat. No. KLKB1-5870HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human KLKB1 full-length ORF (BAG36176.1, 1 a.a. - 638 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	638 amino acids
<b>Description</b>	<p>Plasma prekallikrein is a glycoprotein that participates in the surface-dependent activation of blood coagulation, fibrinolysis, kinin generation and inflammation. It is synthesized in the liver and secreted into the blood as a single polypeptide chain. Plasma prekallikrein is converted to plasma kallikrein by factor XIIa by the cleavage of an internal Arg-Ile bond. Plasma kallikrein therefore is composed of a heavy chain and a light chain held together by a disulphide bond. The heavy chain originates from the amino-terminal end of the zymogen and contains 4 tandem repeats of 90 or 91 amino acids. Each repeat harbors a novel structure called the apple domain. The heavy chain is required for the surface-dependent pro-coagulant activity of plasma kallikrein. The light chain contains the active site or catalytic domain of the enzyme and is homologous to the trypsin family of serine proteases. Plasma prekallikrein deficiency causes a prolonged activated partial thromboplastin time in patients.</p> <p>[provided by RefSeq]</p>
<b>Molecular Mass</b>	96.58 kDa

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**AA Sequence**

MILFKQATYFISLFATVSCGCLTQLYENAFFRGGDVASMYTPNAQYCQMRCTFHPR  
 CLLFSFLPASSINDMEKRFGCFLKDSVTGTLPKVHRTGAVSGHSLKQCGHQISACHR  
 DIYKGVDMRGVNFNVSKVSSVEECQKRCTNNIRCQFFSYATQTFHKAEYRNNCLLK  
 YSPGGTPTAIKVL SNVESGFSLKPCALSEIGCHMNIFQHAFSDVDVARVLTDPDFVC  
 RTICTYHPNCLFFTFYTNVWKIESQRNVCLLKTSESGTPSSSTPQENTISGYSLLTCK  
 RTLPEPCHSKIYPGVDFGGEELNVTFVKGVNVCQETCTKMIRCQFFTYSLLPEDCKE  
 EKCKCFLRLSMDGSPTRIA YGTQGSSGYSLRLCNTGDNSVCTTKTSTRIVGGTNSS  
 WGEWPWQVSLQVKLTAQRHLCGGSLIGHQWVLTAAHCFDGLPLQDVWRIYSILN  
 LSDITKDTPFSSQIKEIIHQNYKVSEGNHDIALIKLQAPLNYTEFQKPICLPSKGDSTIY  
 TNCWVTGWGFSKEKGEIQNILQKVNIPLV TNEECQKRYQDYKITQRMVCAGYKEGG  
 KDACKGDSGGPLVCKHNGMWRLVGITSWGEGCARREQPGVYTKVAEYMDWILEK  
 TQSSDGKAQMQSPA

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**GENE INFORMATION**
**Gene Name**

KLKB1 kallikrein B, plasma (Fletcher factor) 1 [ Homo sapiens ]

**Official Symbol**

KLKB1

**Synonyms**

KLKB1; kallikrein B, plasma (Fletcher factor) 1; KLK3; plasma kallikrein; kininogenin;

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Fletcher factor; plasma prekallikrein; plasma kallikrein heavy chain; plasma kallikrein light chain; PPK;

**Gene ID** 3818

**mRNA Refseq** NM\_000892

**Protein Refseq** NP\_000883

**MIM** 229000

**UniProt ID** P03952

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