

Recombinant Full Length Human KLKB1 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human KLKB1 full-length ORF (BAG36176.1, 1 a.a. - 638 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	638 amino acids
Description	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. [provided by RefSeq]
Molecular Mass	96.58 kDa

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AA Sequence

MILFKQATYFISLFATVSCGCLTQLYENAFFRGGDVASMYTPNAQYCQMRCTFHPR
 CLLFSFLPASSINDMEKRFGCFLKDSVTGTLPKVHRTGAVSGHSLKQCGHQISACHR
 DIYKGVDMRGVNFNVSKVSSVEECQKRCTNNIRCQFFSYATQTFHKAEYRNNCLLK
 YSPGGTPTAIKVL SNVESGFSLKPCALSEIGCHMNIFQH LAFSDVDVARVLTPDAFVC
 RTICTYHPNCLFFTFYTNVWKIESQRNVCLLKTSSESGTPSSSTPQENTISGYSLLTCK
 RTLPEPCHSKIYPGVDFGGEELNVT FVKGVNVCQETCTKMIRCQFFTYSLLPEDCKE
 EKCKCFLRLSMDGSPTRIAYGTQGSSGYSLRLCNTGDNSVCTTKTSTRIVGGTNSS
 WGEWPWQVSLQVKLTAQRHLCGGS LIGHQWVLTA AHCFDGLPLQDVWRIYSGILN
 LSDITKDTPFSSQIKEIIHQNYKVSEGNHDIALIKLQAPLNYTEFQKPICLPSKGDSTIY
 TNCWVTGWGFSKEKGEIQNILQKVNIP LVTNEECQKRYQDYKITQRMVCAGYKEGG
 KDACKGDSGGPLVCKHNGMWRLVGITSWGEGCARREQPGVYTKVAEYMDWILEK
 TQSSDGKAQM QSPA

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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