

Recombinant Human KLKB1 Protein, GST-tagged

Cat. No. KLKB1-4925H **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	Wheat Germ
Description	<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>
Molecular Mass	96.58 kDa
AA Sequence	MILFKQATYFISLFATVSCGCLTQLYENAFFRGGDVASMYTPNAQYCQMRCTFHPR

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CLLFSFLPASSINDMEKRFGCFLKDSVTGTLPKVHRTGAVSGHSLKQCGHQISACHR
 DIYKGVDMRGVNFVSKVSSVEECQKRCTNNIRCQFFSYATQTFHKAEYRNNCLLK
 YSPGGTPTAIKVLNSNVEGSLKPCALSEIGCHMNIFQHAFSDVDVARVLTPDAFVC
 RTICTYHPNCLFFTFYTNVWKIESQRNVCLLKTSESGTPSSSTPQENTISGYSLLTCK
 RTLPEPCHSKIYPGVDFGGEELNVTFVKGVNVCQETCTKMIRCQFFTYSLLPEDCKE
 EKCKCFLRLSMDGSPTRIAYGTTQSSGYSLRLCNTGDNSVCTTKTSTRIVGGTNSS
 WGEWPWQVSLQVKLTAQRHLCGGSLIGHQWVLTAAHCFDGLPLQDVWRIYSGILN
 LSDITKDTPFSSQIKEIIHQNYKVSEGNHDIALIKLQAPLNYTEFQKPICLPSKGDSTIY
 TNCWVTGWGFSKEKGEIQNILQKVNIPVLTNEECQKRYQDYKITQRMVCAGYKEGG
 KDACKGDSGGPLVCKHNGMWRLVGITSWGEGCARREQPGVYTKVAEYMDWILEK
 TQSSDGKAMQSPA

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

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light chain; PPK;

Gene ID 3818**mRNA Refseq** NM_000892**Protein Refseq** NP_000883**MIM** 229000**UniProt ID** P03952 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA