

32-8497: Recombinant Human Plasma Kallikrein/KLKB1 (C-6His)

Gene : KLKB1
Gene ID : 3818
Uniprot ID : P03952

Description

Source: Human Cells.
MW :70.2kD.

Recombinant Human Plasma kallikrein is produced by our Mammalian expression system and the target gene encoding Gly20-Ala638 is expressed with a 6His tag at the C-terminus. KLKB1 is a 638 amino acids protein that belongs to the peptidase S1 family and plasma kallikrein subfamily. It contains a peptidase S1 domain and four apple domains. The enzyme cleaves Lys-Arg and Arg-Ser bonds. It activates, in a reciprocal reaction, factor XII after its binding to a negatively charged surface. It also releases bradykinin from HMW kininogen and may also play a role in the renin-angiotensin system by converting prorenin into renin. It participates in the surface-dependent activation of blood coagulation, fibrinolysis, kinin generation and inflammation. Plasma prekallikrein deficiency causes a prolonged activated partial thromboplastin time in patients.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM TrisHCl,150mM NaCl,10% Glycerol,pH8.0.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : GCLTQLYENAFFRGGDVASMYTPNAQYQMRCTFHPRCLLFSFLPASSINDMEKRFGCFLKDSVTGTLPKVHR
TGAVSGHSLKQCGHQISACHRDIYKGVDMRGVNFNVSKVSSVEECQKRCTNNIRCQFFSYATQTFHKAEYRN
NCLLKYSPPGGTPTAIKVLNSNVEGFSFKPCALSEIGCHMNIFQHAFSDVDVARVLTPDAFVCRITICTYHPNCLFF
TFYTNVWKIESQRNVCLLKTSESGTPSSSTPQENTISGYSLLTCKRTLPEPCHSKIYPGVDFGGEELNVTFVKGV
NVCQETCTKMIRCQFFTYSLLPEDCKEEKCKCFRLRLSMDGSPTRIAYGQTQSSGYSLRLCNTGDNSVCTTKTST
RIVGGTNSSWGEPWQVSLQVQLTAQRHLCGGSLIGHQWVLTAAHCFDGLPLQDVWRIYSGILNLSGITKDT
PFSQIKEIIHQNYKVSEGNHDIALIKLQAPLNYTEFQKPICLPSKGDSTIYTNCWVTGWGFSKEKGEIQNILQKV
NIPLVTNEECQKRYQDYKITQRMVCAGYKEGGKDACKGDSGGPLVCKHNGMWRLVGITSWGEGCARREQPG
VYTKVAEYMDWILEKTQSSDGKAQMOSPVDHHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.