Proteins

Inhibitors



Product Data Sheet

Plasma kallikrein/KLKB1 Protein, Human (HEK293, His)

Cat. No.: HY-P70249A

Synonyms: Plasma kallikrein; PKK; KLK3; KLKB1; Fletcher factor; Kininogenin

Species: Source: HEK293

Accession: P03952 (G20-A638)

Gene ID: 3818 Molecular Weight: 72-80 kDa

PROPERTIES

AA Sequence	GCLTQLYENA FFRGGDVASM YTPNAQYCQM RCTFHPRCLL FSFLPASSIN DMEKRFGCFL KDSVTGTLPK VHRTGAVSGH SLKQCGHQIS ACHRDIYKGV DMRGVNFNVS KVSSVEECQK RCTNNIRCQF FSYATQTFHK AEYRNNCLLK YSPGGTPTAI KVLSNVESGF SLKPCALSEI GCHMNIFQHL AFSDVDVARV LTPDAFVCRT ICTYHPNCLF FTFYTNVWKI ESQRNVCLLK TSESGTPSSS TPQENTISGY SLLTCKRTLP EPCHSKIYPG VDFGGEELNV TFVKGVNVCQ ETCTKMIRCQ FFTYSLLPED CKEEKCKCFL RLSMDGSPTR IAYGTQGSSG YSLRLCNTGD NSVCTTKTST RIVGGTNSSW GEWPWQVSLQ VKLTAQRHLC GGSLIGHQWV LTAAHCFDGL PLQDVWRIYS GILNLSDITK DTPFSQIKEI IIHQNYKVSE GNHDIALIKL QAPLNYTEFQ KPICLPSKGD TSTIYTNCWV TGWGFSKEKG EIQNILQKVN IPLVTNEECQ KRYQDYKITQ RMVCAGYKEG GKDACKGDSG GPLVCKHNGM WRLVGITSWG EGCARREQPG VYTKVAEYMD
Biological Activity	Immobilized Human KLKB1, His Tag at 2 μ g/mL (100 μ l/well) on the plate. Dose response curve for Anti-KLKB1 Antibody, hFc Tag with the EC ₅₀ of \leq 33.8 ng/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22 μm filtered solution in 20 mM NaAc,150 mM NaCl, pH 5.0. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in 20 mM NaAc,150 mM NaCl, pH 5.0.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

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Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Plasma kallikrein (KLKB1) is an enzyme with the ability to cleave Lys-Arg and Arg-Ser bonds, facilitating the release of bradykinin from HMW kininogen. Additionally, KLKB1 plays a pivotal role in the activation of factor XII through a reciprocal reaction, particularly following its binding to a negatively charged surface. Beyond its involvement in the kinin system, this enzyme may contribute to the renin-angiotensin system by converting prorenin into renin.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA