

Recombinant Human Kallikrein 1, His-tagged

Cat. No. KLK1-7198H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KLK1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 28.7 kDa.
Species	Human
Source	E.coli
ProteinLength	25-262aa
Description	Kallikrein-1, also known as KLK1, belongs to the Kallikrein subfamily. Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. This protein is functionally conserved in its capacity to release the vasoactive peptide, Lys-bradykinin, from low molecular weight kininogen.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT.
Molecular Mass	28.7 kDa (259aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MIVGGWECEQ HSQPWQAALY HFSTFQCGGI LVHRQWVLTA AHCISDNYQL WLGRHNLFD D ENTAQFVHVS ESFPHPGFNM SLLNHTRQA DEDYSHDLML LRLTEPADTI TDAVKVVELP TQEPEVGSTC

 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

LASGWGSIEP ENFSFPDDLQ CVDLKILPND ECKKVHVQKV TDFMLCVGHL
EGGKDTCVGD SGGPLMCDGV LQGVTSWGYV PCGTPNKPSV AVRVL SYVKW
IEDTIAENS

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [KLK1 kallikrein 1 \[Homo sapiens \]](#)

Official Symbol KLK1

Synonyms KLK1; kallikrein 1; kallikrein 1, renal/pancreas/salivary; kallikrein-1; Klk6; tissue kallikrein; glandular kallikrein 1; kallikrein serine protease 1; kidney/pancreas/salivary gland kallikrein; hK1; KLKR;

Gene ID [3816](#)

mRNA Refseq [NM_002257](#)

Protein Refseq [NP_002248](#)

UniProt ID [P06870](#)

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Chromosome Location	19q13.3
Pathway	Blood Clotting Cascade, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, conserved biosystem;
Function	peptidase activity; serine-type endopeptidase activity;

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