

# Recombinant Human Kallikrein 1, His-tagged

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

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | 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.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>ProteinLength</b>    | 25-262aa  |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT.  |
| <b>Molecular Mass</b>   | 28.7 kDa (259aa) confirmed by MALDI-TOF   |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MIVGGWECEQ HSQPWQAALY HFSTFQCGGI<br>LVHRQWVLT AHCISDNYQL WLGRHNLFD D ENTAQFVHVS ESFPHPGFNM<br>SLLNHTRQA DEDYSHDLML LRLTEPADTI TDAVKVVELP TQEPEVGSTC   |

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LASGWGSIEP ENFSFPDDLQ CVDLKILPND ECKKVHVQKV TDFMLCVGHL  
 EGGKDTCVGD SGGPLMCDGV LQGVTSWGYV PCGTPNKPSV AVRVLSSYVKW  
 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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|----------------------------|--|
| <b>Chromosome Location</b> | 19q13.3  |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | peptidase activity; serine-type endopeptidase activity;  |

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