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# Recombinant human Kallikrein 1/KLK1 protein

Catalog Number: ATGP1766

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

25-262aa

#### UniProt No.

P06870

#### **NCBI Accession No.**

NP 002248

#### **Alternative Names**

Kallikrein-1, Kidney/pancreas/salivary gland kallikrein, Tissue kallikrein

# PRODUCT SPECIFICATION

### **Molecular Weight**

28.7 kDa (259aa) confirmed by MALDI-TOF

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **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. Recombinant human KLK1 protein, fused to His-tag at N-terminus, was expressed in E. coli and



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purified by using conventional chromatography techniques.

# **Amino acid Sequence**

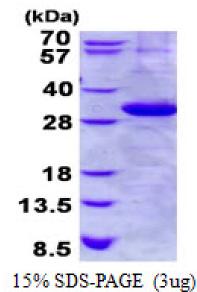
MGSSHHHHHH SSGLVPRGSH MIVGGWECEQ HSQPWQAALY HFSTFQCGGI LVHRQWVLTA AHCISDNYQL WLGRHNLFDD ENTAQFVHVS ESFPHPGFNM SLLENHTRQA DEDYSHDLML LRLTEPADTI TDAVKVVELP TQEPEVGSTC LASGWGSIEP ENFSFPDDLQ CVDLKILPND ECKKVHVQKV TDFMLCVGHL EGGKDTCVGD SGGPLMCDGV LQGVTSWGYV PCGTPNKPSV AVRVLSYVKW IEDTIAENS

## **General References**

Lu H.S., et al. (1989) Int. J. Pept. Protein Res. 33:237-249 Kellermann J., et al. (1988) Protein Seq. Data Anal. 1:177-182

# **DATA**





3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

