

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

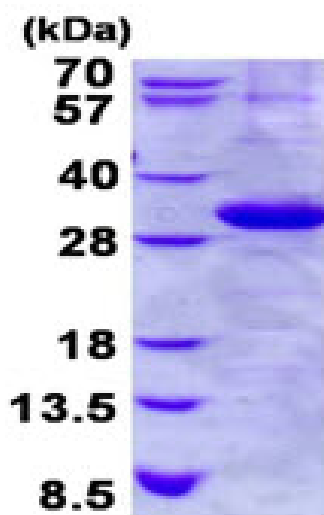
MGSSHHHHHHH SGLVPRGSH MIVGGWECEQ HSQPWQAALY HFSTFQCGGI LVHRQWVLTA AHCISDNYQL
WLGRHNLFDL ENTAQFVHVS ESFPHPGFNM SLENHTRQA DEDYSHDLML LRLTEPADI TDAVKVELP TQEPEVGSTC
LASGWGSI EP ENFSFPDDLQ CVDLKILPND ECKKVHVQKV TDFMLCVGHL EGGKDTCVGD SGGPLMCDGV LQGVTSWGYV
PCGTPNKPSV AVRVL SYVKW IEDTIAENS

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

SDS-PAGE



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

15% SDS-PAGE (3ug)