

# Recombinant human Kallikrein 10/KLK10 protein

Catalog Number: ATGP3834

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

34-276aa

### UniProt No.

O43240

### NCBI Accession No.

NP\_001070968

### Alternative Names

PRSSL1, Protease serine-like 1, Normal epithelial cell-specific 1, NES1, KLK10, Kallikrein-10, Kallikrein related peptidase 10

## PRODUCT SPECIFICATION

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### Molecular Weight

27.8 kDa (252aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 1mM DTT, 30% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### 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

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### Description

KLK10, also known as kallikrein-10, is belong to the subgroup of serine proteases encompassing fifteen homologous members. This protein is widely expressed in normal human organs, for example breast, prostate, thyroid, testis, ovary, and gastrointestinal tract. Interestingly, it is highly expressed in the islets of Langerhans in

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human pancreas. Also, it is detectable in many biological fluids, including milk, seminal plasma, amniotic fluid, serum, and cerebrospinal fluid. In spite of its unknown physiological functions, the implications of KLK10 in various diseases have been explored. Early studies have shown that this expression is dramatically down-regulated in breast and testicular germ-cell tumors. It is secreted and may play a role in suppression of tumorigenesis in breast. Recombinant human KLK10, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

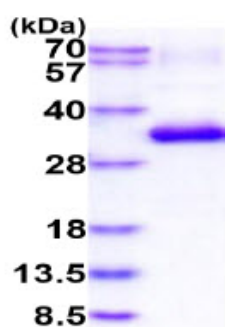
ADPALLPQND TRLDPEAYGS PCARGSQPWQ VSLFNGLSFH CAGVLVDQSW VLTAAHCGNK PLWARVGDH  
LLLLQGEQLR RTTRSVVHPK YHQGSGPILP RRTDEHDLML LKLARPVVLG PRVRALQLPY RCAQPGDQCQ VAGWGTTAAR  
RVKYNKGLTC SSITILSPKE CEVFYPGVVT NNMICAGLDR GQDPCQSDSG GPLVCDLTLQ GILSWGIVYPC GSAQHAPVYT  
QICKYMSWIN KVIRSNHHHH HH

## General References

Petraki CD., et al, (2002) J. Histochem. Cytochem. 50:1247-1261.  
Luo LY., et al. (2002) Br. J. Cancer. 86:1790-1796.

## DATA

### SDS-PAGE



15% SDS-PAGE (3ug)

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