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## Recombinant human Kallikrein 7/KLK7 protein

Catalog Number: ATGP3371

#### PRODUCT INFORMATION

## **Expression system**

Baculovirus

#### **Domain**

1-181aa

#### UniProt No.

P49862

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

NP 001193982

#### **Alternative Names**

Stratum corneum chymotryptic enzyme, Serine protease 6, SCCE, PRSS6, KLK7, Kallikrein-7 isoform 2, Kallikrein-7, Kallikrein related peptidase 7, HK7

#### **PRODUCT SPECIFICATION**

## **Molecular Weight**

20.9 kDa (190aa)

#### **Concentration**

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

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 95% 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**

## **Description**

KLK7, as known as kallikrein-7 isoform 2, is a secreted protein which belongs to the peptidase S1 family and kallikrein subfamily. Members of the kallikrein family are involved in various malignancies such as prostate (PSA, KLK2, KLK15), ovarian (KLK4, KLK5, KLK6, KLK8, KLK10), and breast cancer (KLK10, KLK13, LKL14). This protein is



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expressed in the skin, a major physiological function of KLK7 is to regulate the desquamation process through proteolysis of the intercellular adhesive structure between corneocytes. Recombinant human KLK7, fused to Histag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

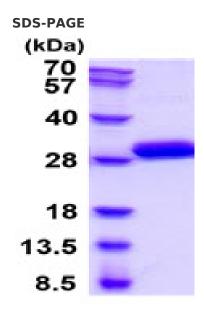
### **Amino acid Sequence**

ADPMNEYTVH LGSDTLGDRR AQRIKASKSF RHPGYSTQTH VNDLMLVKLN SQARLSSMVK KVRLPSRCEP PGTTCTVSGW GTTTSPDVTF PSDLMCVDVK LISPQDCTKV YKDLLENSML CAGIPDSKKN ACNGDSGGPL VCRGTLQGLV SWGTFPCGQP NDPGVYTOVC KFTKWINDTM KKHRHHHHHH

#### **General References**

Yu Y., et al. (2015) J. Biol. Chem. 290:17762-17775. Tamir A., et al. (2014) J. Ovarian. Res. 7:109-124.

## **DATA**



15% SDS-PAGE (3ug)

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

