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# Recombinant human Kallikrein 13/KLK13 protein

Catalog Number: ATGP3148

## **PRODUCT INFORMATION**

## **Expression system**

Baculovirus

#### **Domain**

17-277aa

#### UniProt No.

O9UKR3

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

NP 056411

#### **Alternative Names**

Kallikrein related peptidase 13, Kallikrein-13 Kallikrein-like protein 4, KLK-L4

## **PRODUCT SPECIFICATION**

### **Molecular Weight**

29.7 kDa (267aa)

#### Concentration

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

#### **Formulation**

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

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

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

## **Biological Activity**

Specific activity is > 8,000pmol/min/ug. One unit will hydrolyze 1.0pmole of BAEE to Na-Benzoyl-L-arginine per minute at pH8.0 at 25C.

## **Tag**

His-Tag

## **Application**

SDS-PAGE, Enzyme Activity

## **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**



## Recombinant human Kallikrein 13/KLK13 protein

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## **Description**

KLK13, also known as kallikrein-13, belongs to 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. KLK13 is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Expression of this gene is regulated by steroid hormones and may be useful as a marker for breast cancer. An additional transcript variant has been identified, but its full length sequence has not been determined. Recombinant human KLK13, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

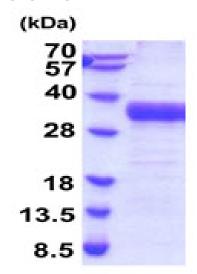
GGVSQESSKV LNTNGTSGFL PGGYTCFPHS QPWQAALLVQ GRLLCGGVLV HPKWVLTAAH CLKEGLKVYL GKHALGRVEA GEQVREVVHS IPHPEYRRSP THLNHDHDIM LLELQSPVQL TGYIQTLPLS HNNRLTPGTT CRVSGWGTTT SPQVNYPKTL QCANIQLRSD EECRQVYPGK ITDNMLCAGT KEGGKDSCEG DSGGPLVCNR TLYGIVSWGD FPCGQPDRPG VYTRVSRYVL WIRETIRKYE TQQQKWLKGP QHHHHHH

#### **General References**

Yousef G.M. et al., (2000) J. Biol. Chem. 275:11891-11898. Diamandis EP. et al., (2000) Trends Endocrinol. Metab. 11:54-60.

#### **DATA**





15% SDS-PAGE (3ug)

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

