Recombinant human Kallikrein 13/KLK13 protein

Catalog Number: ATGP3148

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
17-277aa

UniProt No.
Q9UKR3

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

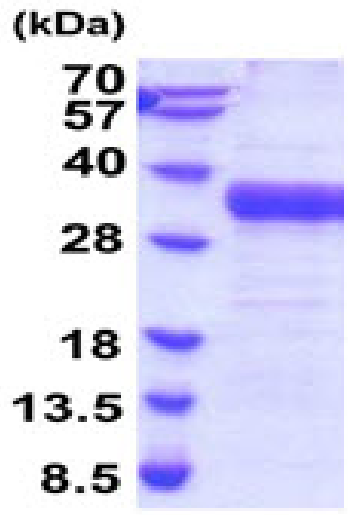
GGVSQESSKV LNTNGTSGFL PGGYTCFPHS QPWQAALLVQ GRLLCGGVLV HPKWVLTAAH CLKEGLKVYL GKHALGRVEA GEQVREVVHS IPHPEYRRSP THLNHDHDIM LLELQSPVQL TGYIQTLPLS HNNRLTPGTT CRVSGWGTTT SPQVNYPKTL QCANIQLRSD EECRQVYPGK ITDNMLCAGT KEGGKDSCEG DSGGPLVCNR TLYGIVSWGD FPCGQPDRPG VYTRVSRYVL WIRETIRKYE TQQQKWLKGP QHHHHHH

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

SDS-PAGE



15% SDS-PAGE (3ug)

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