

Recombinant human Kallikrein 2/KLK2 protein

Catalog Number: ATGP2175

PRODUCT INFORMATION

Expression system

E.coli

Domain

25-261aa

UniProt No.

P20151

NCBI Accession No.

NP_005542

Alternative Names

Kallikrein related peptidase 2, Glandular kallikrein-1, hGK-1, Tissue kallikrein-2, Prostatic kallikrein 2

PRODUCT SPECIFICATION

Molecular Weight

28.5 kDa (260aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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

KLK2 is a member of the grandular kallikrein protein family. Kallikreins are a subgroup of serine proteases that are clustered on chromosome 19. Members of this family are involved in a diverse array of biological functions. The protein is a highly active trypsin-like serine protease that selectively cleaves at arginine residues. KLK2 is primarily expressed in prostatic tissue and is responsible for cleaving pro-prostate-specific antigen into its enzymatically active form. This gene is highly expressed in prostate tumor cells and may be a prognostic maker for prostate cancer risk. Alternate splicing results in both coding and non-coding transcript variants.

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Recombinant human KLK2 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSIVGGWEC EKHSQPWQVA VYSHGWAHCG GVLVHPQWVL TAAHCLKKNS
QVWLGRHNL F EPEDTGQRVP VSHSFPHP LY NMSLLKHQSL RPDEDSSHD L MLLRLSEPAK ITDVVKVLGL PTQEPALGTT
CYASGWGSIE PEEFLRPRSL QCVSLHLLSN DMCARAYSEK VTEFMLCAGL WTGGKDTCCG DSGGPLVCNG VLQGITSWGP
EPCALPEKPA VYTKVVHYRK WIKDTIAANP

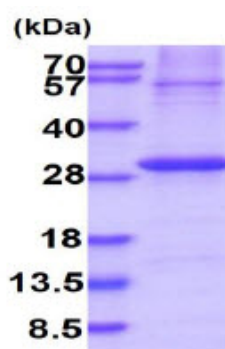
General References

Cargill M., et al. (1999) Nat. Genet. 22:231-238

Gan L., et al. (2000) Gene. 257:119-130

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)