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

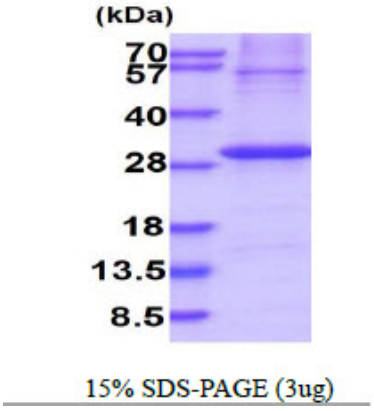
MGSSHHHHHH SSGLVPRGSH MGSIVGGWEC EKHSQPWQVA VYSHGWAHCG GVLVHPQWVL TAAHCLKKNS QVWLGRHNLF EPEDTGQRVP VSHSFPHPLY NMSLLKHQSL RPDEDSSHDL MLLRLSEPAK ITDVVKVLGL PTQEPALGTT CYASGWGSIE PEEFLRPRSL QCVSLHLLSN DMCARAYSEK VTEFMLCAGL WTGGKDTCGG DSGGPLVCNG VLQGITSWGP EPCALPEKPA VYTKVVHYRK WIKDTIAANP

General References

Cargill M., et al. (1999) Nat. Genet. 22:231-238
Gan L., et al. (2000) Gene. 257:119-130

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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