

Recombinant Human kallikrein-related peptidase 2, His-tagged

Cat. No. KLK2-221H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	KLK2, 25-261aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	25-261 a.a.
Description	<p>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. Recombinant human KLK2 protein, fused to His-tag at N-terminus, was expressed in E.coli.</p>
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Molecular Mass	28.5kDa (260aa)
AA Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSIVGGWEC EKHSQPWQVA VYSHGWAHCG GVLVHPQWVL TAAHCLKKNS QVWLGRHNLF EPEDTGQRVP VSHSFPHPLY</p>

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NMSLLKHQSL RPDEDSSHDL MLLRLSEPAK ITDVVKVLGL PTQEPALGTT
 CYASGWGSIE PEEFLRPRSL QCVSLHLLSN DMCARAYSEK VTEFMLCAGL
 WTGGKDTCCG DSGGPLVCNG VLQGITSWGP EPCALPEKPA VYTKVVHYRK
 WIKDTIAANP

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [KLK2 kallikrein-related peptidase 2 \[Homo sapiens \]](#)

Official Symbol KLK2

Synonyms KLK2; kallikrein-related peptidase 2; kallikrein 2, prostatic; kallikrein-2; tissue kallikrein-2; glandular kallikrein 2; glandular kallikrein-1; hK2; hGK-1; KLK2A2; FLJ17010; FLJ17011; MGC12201;

Gene ID [3817](#)

mRNA Refseq [NM_001002231](#)

Protein Refseq [NP_001002231](#)

MIM [147960](#)

UniProt ID [P20151](#)

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**Chromosome
Location**

19q13.33

Pathway

Activation of Matrix Metalloproteinases, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, conserved biosystem; Extracellular matrix organization, organism-specific biosystem; Regulation of Androgen receptor activity, organism-specific biosystem;

Function

peptidase activity; serine-type endopeptidase activity;

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