

## Recombinant Human KLK2, His-tagged

**Cat. No.** KLK2-122H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Kallikrein 2/KLK2 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Pro19-Pro261) of Human KLK2 fused with a polyhistidine tag at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	19-261 a.a.
<b>Description</b>	Kallikrein-2 (KLK2) is a secreted serine protease that belongs to the peptidase S1 family of Kallikrein subfamily. KLK2 contains 1 peptidase S1 domain. It is highly expressed in the human prostate gland. KLK2 can cleave Met-Lys and Arg-Ser bonds in kininogen to release Lys-bradykinin, but Preferential cleavages of Arg- -Xaa bonds in small molecule substrates. It also highly selective action to release kallidin (lysyl-bradykinin) from kininogen involves hydrolysis of Met- -Xaa or Leu- -Xaa. KLK2 is inhibited by serpins such as protein C inhibitor, antichymotrypsin, and plasminogen. KLK2 is considered to be a biomarker for prostate cancer.
<b>Form</b>	Supplied as a 0.2 µM filtered solution of 20mM Citrate, 150mM NaCl, pH 3.5
<b>AA Sequence</b>	PLIQSRIVGGWECEKHSQPWQVAVYSHGWAHCGGVLVHPQWVLTA AHCLKKNSQ VWLGRHNL FEP EDTGQRVPVSHSFPHPLYNMSLLKHQSLRPDEDSS HDLMLLRLS EPAKITDVVKVLGLPTQEPAL GTTCYASGWGSIEPEEFLRPRSLQCVSLHLLSNDMC ARAYSEKVTEFMLCAGLWTGGKDTCCGDS GGPLVCNGVLQGITSWGPEPCALPE

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KPAVYTKVVHYRKWIKDTIAANPVDHHHHHH

<b>Endotoxin</b>	Less than 0.1 ng/μg (1 IEU/μg).
<b>Purity</b>	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
<b>Storage</b>	Store at Please minimize freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	KLK2 kallikrein-related peptidase 2 [ Homo sapiens ]
<b>Official Symbol</b>	KLK2
<b>Synonyms</b>	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;
<b>Gene ID</b>	3817
<b>mRNA Refseq</b>	NM_001002231
<b>Protein Refseq</b>	NP_001002231
<b>MIM</b>	147960
<b>UniProt ID</b>	P20151
<b>Chromosome Location</b>	19q13.33
<b>Pathway</b>	Activation of Matrix Metalloproteinases, organism-specific biosystem; Coregulation of

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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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