

Recombinant Human KLK2, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	HEK293
ProteinLength	19-261 a.a.
Description	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-I-Xaa bonds in small molecule substrates. It also highly selective action to release kallidin (lysyl-bradykinin) from kininogen involves hydrolysis of Met-I-Xaa or Leu-I-Xaa. KLK2 is inhibited by serpins such as protein C inhibitor, antichymotrypsin, and plasminogen. KLK2 is considered to be a biomarker for prostate cancer.
Form	Supplied as a 0.2 µM filtered solution of 20mM Citrate, 150mM NaCl, pH 3.5
AA Sequence	PLIQSRIVGGWECEKHSQPWQVAVYSHGWAHCGGVLVHPQWVLTAACHCLKKNSQ VWLGRHNLFEPEDTGQVRPVSHSFPHPLYNMSLLKHQSLRPDEDSSHDLMLLRLS EPAKITDVVKVLGLPTQEPAL GTTCYASGWGSIEPEEFLRPRSLQCVSLHLLSNDMC ARAYSEKVTEFMLCAGLWTGGKDTCCGDS GGPLVCNGVLQGITSWGPEPCALPE

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KPAVYTKVVHYRKWIKDTIAANPVDHHHHHH

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

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
Chromosome Location	19q13.33
Pathway	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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