

Recombinant Human KLK1

Cat. No. KLK1-29686TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human KLK1 , a single, glycosylated, polypeptide chain, predicted Mwt: 28-32 kDa.
Species	Human
Source	Yeast
ProteinLength	238 amino acids
Description	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. This protein is functionally conserved in its capacity to release the vasoactive peptide, Lys-bradykinin, from low molecular weight kininogen.
Molecular Weight	28.000kDa
Tissue specificity	Isoform 2 is expressed in pancreas, salivary glands, kidney, colon, prostate gland, testis, spleen and the colon adenocarcinoma cell line T84.
Biological activity	Human Kallikrein 1 active. Unit Definitin: 1 unit will hydrolyze 1 umole of H-D-Val-Leu-Arg-pNA per minute at pH 8.0 at 37°C Human Kallikrein 1 measured biological activity of no less than 5 Units/mg

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Form	Liquid
Purity	by SDS-PAGE
Storage buffer	Constituent:100% PBS
Storage	Please see Notes section
Sequence Similarities	Belongs to the peptidase S1 family. Kallikrein subfamily.Contains 1 peptidase S1 domain.

GENE INFORMATION

Gene Name	KLK1 kallikrein 1 [Homo sapiens]
Official Symbol	KLK1
Synonyms	KLK1; kallikrein 1; kallikrein 1, renal/pancreas/salivary; kallikrein-1; Klk6;
Gene ID	3816
mRNA Refseq	NM_002257
Protein Refseq	NP_002248
Uniprot ID	P06870
Chromosome Location	19q13.3
Pathway	Blood Clotting Cascade, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem; Endocrine and other

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factor-regulated calcium reabsorption, conserved biosystem;

Function

peptidase activity; serine-type endopeptidase activity;

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