Native Human KLK1

Cat. No. KLK1-29685TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native Human Kallikrein 1 from Human plasma, 86-88kDa.
Species	Human
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.
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	Activity: 15 units per mg. One unit is defined as the amount of enzyme that hydrolyzes one umole of D-Pro-Phe-Arg-pNA per minute at 25°C, pH 7.8.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 20mM Tris HCl, 100mM Sodium chloride, pH 7.8
Storage	Shipped on dry ice. Upon delivery aliquot and store at -20oC. Avoid freeze / thaw cycles.

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Sequence Similarities	Belongs to the peptidase S1 family. Kallikrein subfamily.Contains 1 peptidase S1 domain.
Full Length	Full L.

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 factor-regulated calcium reabsorption, conserved biosystem;
Function	peptidase activity; serine-type endopeptidase activity;

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