

# Active Recombinant Human Kallikrein-Related Peptidase 4

**Cat. No.** KLK4-1358H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	KLK4 Human Recombinant produced in HEK-293 cells is a single, glycosylated, polypeptide chain having a molecular weight of 25kDa. The KLK4 is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	Kallikreins are a subgroup of serine proteases containing various physiological functions. kallikreins are involved in carcinogenesis and several have potential as novel cancer and other disease biomarkers. KLK4 is one of the fifteen kallikrein subfamily members localized in a cluster on chromosome 19. In some tissues its expression is hormonally regulated. KLK4 is involved in the degradation of enamel proteins.
<b>Form</b>	The KLK4 protein was lyophilized from a 0.2µm filtered solution containing no additives or preservatives.
<b>Purity</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Bio-activity</b>	>3000pmols/min/g
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Solubility</b>	It is recommended to reconstitute the lyophilized KLK4 in sterile 18Mµ-cm H2O not

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less than 100g/ml, which can then be further diluted to other aqueous solutions.

**Storage**

Lyophilized KLK4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution KLK4 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**GENE INFORMATION**

**Gene Name** [KLK4 kallikrein-related peptidase 4 \[ Homo sapiens \]](#)

**Official Symbol** [KLK4](#)

**Synonyms**

KLK4; kallikrein-related peptidase 4; ARM1; EMSP; PSTS; AI2A1; EMSP1; KLK-L1; PRSS17; MGC116827; MGC116828; kallikrein-4; prostase; serine protease 17; kallikrein-like protein 1; androgen-regulated message 1; enamel matrix serine protease 1; enamel matrix serine proteinase 1; Kallikrein-4; Enamel matrix serine proteinase 1; Kallikrein-like protein 1; Prostase; Serine protease 17; EC 3.4.21.-; kallikrein 4 (prostase, enamel matrix, prostate); EC 3.4.21

**Gene ID** [9622](#)

**mRNA Refseq** [NM\\_004917](#)

**Protein Refseq** [NP\\_004908](#)

**MIM** [603767](#)

**UniProt ID** [Q9Y5K2](#)

**Chromosome** 19q13.41

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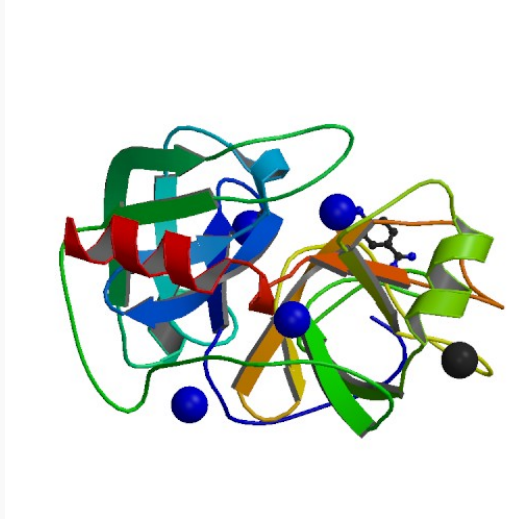
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**Location****Function**

catalytic activity; metal ion binding; peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity

PDBrendering based  
on 2bdg.



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