

Active Recombinant Human Kallikrein-Related Peptidase 4

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human
Description	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.
Form	The KLK4 protein was lyophilized from a 0.2µm filtered solution containing no additives or preservatives.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Bio-activity	>3000pmols/min/g
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Solubility	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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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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