

## Recombinant Human KLK3 Protein

Cat. No. KLK3-0014H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human KLK3 Protein without tag was expressed in HEK293.

**Species** Human

**Source** HEK293

**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. The gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. It encodes a single-chain glycoprotein, a protease which is synthesized in the epithelial cells of the prostate gland, and is present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. The serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates several transcript variants encoding different isoforms.

**Applications** ELISA, CLIA, CG

**Notes** For research use only, not for use in diagnostic procedure.

**Storage** Short term (up to 7 days) store at 2–8 centigrade. Long term, store at - 20 centigrade. Avoid multiple freeze/thaw cycles.

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**Storage Buffer** Supplied as a 0.2 µm filtered solution of PBS, pH7.4

## GENE INFORMATION

**Gene Name** KLK3 kallikrein-related peptidase 3 [ Homo sapiens (human) ]

**Official Symbol** KLK3

**Synonyms** KLK3; kallikrein-related peptidase 3; APS, kallikrein 3, (prostate specific antigen); prostate-specific antigen; PSA; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen; APS; hK3; KLK2A1;

**Gene ID** 354

**mRNA Refseq** NM\_001030047

**Protein Refseq** NP\_001025218

**MIM** 176820

**UniProt ID** P07288

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