

Recombinant Human KLK3 Protein, His-tagged

Cat. No. KLK3-077H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human KLK3 protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	261
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.
Form	Lyophilized
Molecular Mass	27.7 kDa
AA Sequence	MWVPVVFLTLSVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVH

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PQWVLTAAH CIRNKS VILLGRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLRP
 GDDSSHDLMLLR LSEPAELTDAVKVMDLPTQEPALGTTTCYASGWGSIEPEEFLTPKK
 LQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTGGKSTCSGDSGGPLVCNGVLQG
 ITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANP

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

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);

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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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