

Recombinant Human KLK3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. KLK3-2846H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	KLK3 MS Standard C13 and N15-labeled recombinant protein (NP_001639) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
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.
Molecular Mass	28.7 kDa
AA Sequence	MWVPVFLTLSTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVH PQWVLTAH CIRNKS VILLGRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLRP

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GDDSSHDLMMLRLSEPAELTDAVKVMDLPTQEPALGTTTCYASGWGSIEPEEFLTPKK
LQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTGGKSTCSGDSGGPLVCNGVLQG
ITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANPTRTRPLEQKLISEEDLAANDILD
YKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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_001648

Protein Refseq NP_001639

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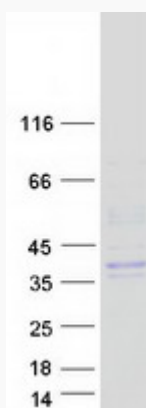
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MIM 176820

UniProt ID P07288

SDS-PAGE



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