

Recombinant Full Length Human KLK3 Protein, GST-tagged

Cat. No. KLK3-5854HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human KLK3 full-length ORF (AAH05307, 1 a.a. - 261 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	261 amino acids
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. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease 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. 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. [provided by RefSeq]
Molecular Mass	54.45 kDa
AA Sequence	MWVPVFLTLSTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVH PQWVLTAAH CIRNKS VILLGRHSLFHPEDTGQVFQVSHSFPHPLYDVSL LKNRFLRP GDDSSHDLM LRLSEPAELTDAVKVMDLPTQEPALGTTTCYASGWGSIEPEEFLTPKK

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	LQCVDLHVISNDVCAQVHPQKVTKLMLCAGRWTGGKSTCSGDSGGPLVCNGVLQG ITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANP
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	KLK3 kallikrein-related peptidase 3 [Homo sapiens]
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

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UniProt ID

P07288

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