

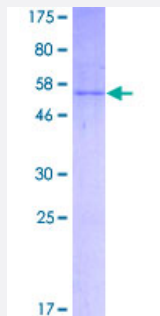
Full-Length

KLK3 (Human) Recombinant Protein (P01)

Catalog # H00000354-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human KLK3 full-length ORF (AAH05307, 1 a.a. - 261 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MWVPVVFLLSVTWIGAAPLILSRVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWVLTAA
HCIRNKSVILLGRHSLFHPEDTGQVFQVSHSFPHPLYDVSLKLNRLRPGDDSSHDLMMLRLSEP
AELTDAVKVMDLPTQEPALGTCYASGWGSIEPEEFLTPKKLQCVDLHVISNDVCAQVHPQKVTK
LMLCAGRWTGGKSTCSGDSGGPLVCNGVLQGITSWGSEPCALPERPSLYTKVVHYRKWIKDTV
ANP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

54.45

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — KLK3

Entrez GeneID [354](#)

GeneBank Accession# [BC005307](#)

Protein Accession# [AAH05307](#)

Gene Name KLK3

Gene Alias APS, KLK2A1, PSA, hK3

Gene Description kallikrein-related peptidase 3

Omim ID [176820](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations P-30 antigen|gamma-seminoprotein|kallikrein 3, (prostate specific antigen)|prostate specific antigen|semenogelase|seminin

Pathway

- [Pathways in cancer](#)
- [Prostate cancer](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lymphatic Metastasis](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)