

## KLK3 Human

**Description:** KLK3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 262 amino acids (25-261) and having a molecular mass of 28.8kDa. The KLK3 is fused to a 25 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #: ENPS-627

For research use only.

**Synonyms:** Prostate-specific antigen, PSA, Gamma-seminoprotein, Seminolisin, Kallikrein-3, P-30 antigen, Semenogelase, KLK3, APS, hK3, KLK2A1.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMIVGGW ECEKHSQPWQ  
VLVASRGRAV CGGVLVHPQW VLTAHCIRN KSVILLGRHS LFHPEDTGQV FQVSHSFPHP  
LYDMSLLKNR FLRPGDDSSH DLMLLRLSEP AELTDAVKVM DLPTQEPALG TTCYASGWGS  
IEPEEFLTPK KLQCVDLHVI SNDVCAQVHP QKVTKFMLCA GRWTGGKSTC SGDSGGPLVC  
NGVLQGITSW GS

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

KLK3 protein solution (1mg/ml) is supplied in 20mM Tris-HCl buffer (pH8.0) and 0.4M Urea.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Kallikrein-3 (KLK3) belongs to the kallikrein-related peptidase family. Kallikreins are a subgroup of serine proteases having various physiological functions. Numerous kallikreins are involved in carcinogenesis and some may be NeoBiolab active cancer and other disease biomarkers. Kallikrein-3 is 1 of the 15 kallikrein subfamily members located in a cluster on chromosome 19 and is a protease present in seminal plasma. KLK3 hydrolyzes semenogelin-1 consequently leading to the liquefaction of the seminal coagulum. KLK3 is assumed to act normally in the liquefaction of seminal coagulum, probably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of the KLK3 protein, called PSA in the clinical setting, is beneficial in the diagnosis and monitoring of prostatic carcinoma.

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