

## 32-8411: Recombinant Human Prostate-Specific Antigen//PSA/KLK3 (Ile25-Pro261, C-6His)(Discontinued)

**Gene :** KLK3  
**Gene ID :** 354  
**Uniprot ID :** P07288

### Description

Source: Human Cells.

MW :27.1kD.

Recombinant Human KLK3 is produced by our Mammalian expression system and the target gene encoding Ile25-Pro261 is expressed with a 6His tag at the C-terminus. KLK3, also known as APS, is short for Prostate-specific antigen. It is a 261 aa. protein which belongs to the peptidase S1 family and Kallikrein subfamily. This protein has 5 isoforms produced by alternative splicing. It is a secreted protein and can form a heterodimer with SERPINA5 which can inhibit its activity. KLK3 is also strongly inhibited by Zn<sup>2+</sup>, 100 times more abundant in semen than in serum. This inhibition is relieved by exposure to semenogelins, which are avid zinc binders. KLK3 can hydrolyze semenogelin-1 thus leading to the liquefaction of the seminal coagulum.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 1mM CaCl<sub>2</sub>, pH7.5.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** IVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWVLTAAHCIRNKSVILLGRHSLFHPEDTGQVFQVSHSF  
PHPLYDMSLLKNRFLRPGDDSSHDMLLRLESEPAELTDAVKVMDLPTQEPALGTTTCYASGWGSIEPEEFLTPKK  
LQCVDLHVISNDVCAQVHPQVTKFMLCAGRWTGGKSTCSGDSGGPLVCNGVLQGITSWGSEPCALPERPSL  
YTKVVHYRKWIKDTIVANPVDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.