

## Product datasheet for **TP727165**

### Prostate Specific Antigen (KLK3) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Prostate-Specific Antigen//PSA/KLK3 (Ile25-Pro261, C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ile25-Pro261
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Tris-Hcl, 150mM NaCl, 1mM CaCl <sub>2</sub> , pH 7.5.
Note:	Recombinant Human Kallikrein-3/Prostate-specific antigen is produced by our Mammalian expression system and the target gene encoding Ile25-Pro261 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	354
UniProt ID:	<a href="#">P07288</a>
Summary:	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.



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