
Product Data Sheet

Product Name: KLK3 Protein
 Cat. No.: GP26161
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	atRoomtemp.
Synonyms	Prostate-specific antigen, PSA, Gamma-seminoprotein, Semin, Kallikrein-3, P-30 antigen, Semenogelase, KLK3, APS, hK3, KLK2A1.		
Amino Acid Sequence	IVGGWECEKH SQPWQVLVAS RGRAVCGGVL VHPQWVLTAA HCIRNKSVIL LGRHSLFHPE DTGQVFQVSH SFPHPLYDMS LLKNRFLRPG DDSSHDLMLL RLSEPAELTDA VKVMDLPTQE PALGTTTCYAS GWGSIEPEEF LTPKKLQCVD LHVISNDVCA QVHPQKVTKF MLCAGRWTGG KSTCSGDSGG PLVCNGVLQG ITSWGSEPCA LPERPSLYTK VVHYRKWIKD TIVANP.		
Solubility	It is recommended to reconstitute the lyophilized Kallikrein-3 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in 20mM Tris-HCl, pH 8.0, 150mM NaCl and 3% trehalose.		

Introduction

Kallikrein-3 (KLK3) is a part of the kallikrein-related peptidase family. Kallikreins are a subgroup of serine proteases having various physiological functions. Numerous kallikreins take part in carcinogenesis and some may be prospective 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 acts 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized KLK3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Kallikrein-3 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Background

Kallikrein-3 Human Recombinant produced in E.Coli is a single, non- glycosylated polypeptide chain containing 237 amino acids and having a molecular mass of 26.1kDa. KLK3 is purified by proprietary chromatographic techniques.

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