
Product Data Sheet

Product Name: KLK3 Human
 Cat. No.: GP21842
 Batch No.: 1

Product Data

Purity	>98%	Source	Human Seminal Plasma.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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 HCIRNKSUIL LGRHSLFHPE DTGQVFQVSH SFPHPYDMS LLKNRFLRPG DDSSHDLMLL RLSEPAELTD AVKVMDLPTQ EPALGTTCTYA SGWGSIEPEE FLTPKKLQCV DLHVISNDVC AQVHPQKGTK FMLCAGRWTG GKSTCSGDSG GPLVCNGVLQ GITSWGSEPC ALPERPSLYT KVVHYRKWIK DTIVANP.		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	KLK3 protein filtered (0.4µm) and lyophilized in 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl pH 7.4.		

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 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 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.

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

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Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

The Human Kallikrein-3 produced from Human Seminal Plasma has a molecular mass of 26.089kDa (calculated without glycosylation) containing 237 amino acid residues.

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