
Product Data Sheet

Product Name: KLK3 Human, Native
Cat. No.: GP26163
Batch No.: 1

Product Data

Purity	>98%	Source	Human seminal fluid.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Prostate-specific antigen, PSA, Gamma-seminoprotein, Semin, Kallikrein-3, P-30 antigen, Semenogelase, KLK3, APS, hK3, KLK2A1		
Formulation	The protein solution (0.2 µm filtered) is in 0.09% NaN ₃ , 0.05M phosphate buffer, 150mM NaCl, pH 7.5.		

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.

Stability

Human Kallikrein-3 should be stored at 2-8°C. Do not freeze!

Background

Human Kallikrein-3 produced in Human seminal fluid having a molecular mass of approximately 30kD.

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

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