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32-2482: KLK3 Recombinant Protein

Alternative Name : Prostate-specific antigen,PSA,Gamma-seminoprotein,Seminin,Kallikrein-3,P-30 antigen,Semenogelase,KLK3,APS,hK3,KLK2A1.

Description

Source : Escherichia Coli. KLK3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 262 amino acids (25-261) and having a molecular mass of 28.8kDa.The KLK3 is fused to a 25 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	KLK3 protein solution (1mg/ml) is supplied in 20mM Tris-HCl buffer (pH8.0) and 0.4M Urea.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSHMIVGGW ECEKHSQPWQ VLVASRGRAV CGGVLVHPQW VLTAAHCIRN KSVILLGRHS LFHPEDTGQV FQVSHSFPHP LYDMSLLKNR FLRPGDDSSH DLMLLRLSEP AELTDAVKVM DLPTQEPALG TTCYASGWGS IEPEEFLTPK KLQCVDLHVI SNDVCAQVHP QKVTKFMLCA GRWTGGKSTC SGDSGGPLVC NGVLQGITSW GSEPCALPER PSLYTKVVHY RKWIKDTIVA NP.

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