
Product Data Sheet

Product Name: KLK3 Human, HEK

Cat. No.: GP26162

Batch No.: 1

Product Data

Purity >98% Source HEK293 Cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Prostate-specific antigen, PSA, Gamma-seminoprotein, Semin, Kallikrein-3, P-30 antigen, Semenogelase, KLK3, APS, hK3, KLK2A1

Amino Acid Sequence
APLILSRIVG GWECEKHSQP WQVLVASRGR AVCGGVLVHP QWVLTAHAI
RNKSVILLGR HSLFHPEDTG QVFQVSHSFP HPLYDMSLLK NRFLRPGDDS
SHDLMLLRLS EPAELTDAVK VMDLPTQEP A LGTTCYASGW GSIEPEEFLT
PKKLQCVDLH VISNDVCAQV HPQKVTKFML CAGRWTGGKS TCSGDSGGPL
VCNGVLQGIT SWGSEPCALP ERPSLYTKVV HYRKWIKDTI VANPHHHHHH

Formulation The KLK3 solution (0.25mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).

Introduction

Kallikrein-3 or KLK3 is a serine proteases subgroup, enzymes can cleave peptide bonds. KLK3 is found in the prostate and may be hold accountable to the regulation of semen liquefaction via seminogelin hydrolysis. The protein is expressed in low concentrations in men with healthy prostates serum. When elevated quantities are found it may show prostate cancer or different prostate disorders such as prostatitis and benign prostatic hyperplasia.

Biological Activity

Specific activity is > 250pmol/min/ug. Defined by the amount of enzyme that cleaves 1pmole of Succinyl-ArgPro-Tyr-p-Nitroanilide to Succinyl-Arg-Pro-Tyr and p-Nitroanilide per minute at pH 7.5 at 37°C.

Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC for

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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.

Background

KLK3 Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (18-261 a.a) containing a total of 250 amino acids, having a molecular mass of 27.6kDa. KLK3 is fused to a 6 amino acid His-tag at C-terminus, and is purified by proprietary chromatographic techniques.

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