

Prostate specific antigen (PSA) Reference Standard

Cat. No. KLK3-3H Lot. No. (See product label)

SPECIFICATION

Product Overview

Each sample is in lyophilised form and consists purified PSA without additives. The material is kept under argon gas in sealed glass ampoules.

Species

Human

Usage

The material is intended to be used as a pure calibrant to establish traceability of serum-based reference materials which in turn will be employed in routine laboratory assays. If the material is used for calibration of in vitro diagnostic devices the commutability has to be assessed by the user. To make the material ready for use, it has to be reconstituted according to the following procedure: Reconstitution procedure

1. Allow ampoule to equilibrate for 1 hour at room temperature prior to opening.
2. After ensuring that the contents are entirely in the body of the ampoule, break the snap top.
3. Slowly add 1.0 mL distilled water to the ampoule using a calibrated dilutor. The accuracy of the dispenser is required to be better than $\pm 0.5\%$ as assessed by multiple weighings of water.
4. Swirl the ampoule gently and intermittently for five minutes to ensure complete dissolution of the contents.

Following reconstitution use immediately or cover the ampoule contents with an airtight seal and store for no longer than 24 hours at 4 °C prior to use. Freezing and thawing should be avoided.

Quality Control Test

Quantitative amino acid analysis

Notes

The seminal fluid used to produce the purified PSA material has been tested for the presence of HIV1/HIV2, Hepatitis B surface antigen and HCV and found negative.

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However the material is of human origin and should be handled with adequate care. It is intended for in vitro analysis only.

Storage

Upon arrival the material shall be stored at -20 °C or lower temperatures until use. However, the European Commission cannot be held responsible for changes that happen during storage of the material at the customer's premises, especially of opened samples.

Concentration

PSA: 71 µg

GENE INFORMATION

Gene Name

[KLK3 kallikrein-related peptidase 3 \[Homo sapiens \]](#)

Official Symbol

KLK3

Synonyms

KLK3; kallikrein-related peptidase 3; APS; PSA; hK3; KLK2A1; prostate-specific antigen; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen; EC 3.4.21.77; kallikrein 3, (prostate specific antigen); Prostate-specific antigen; Gamma-seminoprotein; Kallikrein-3; Semenogelase

Gene ID

[354](#)

mRNA Refseq

[NM_001030047](#)

Protein Refseq

[NP_001025218](#)

MIM

[176820](#)

UniProt ID

[P07288](#)

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Chromosome Location	19q13.41
Pathway	Coregulation of Androgen receptor activity; Diabetes pathways; FOXA1 transcription factor network; Pathways in cancer; Prostate cancer; Regulation of Androgen receptor activity; Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs)
Function	peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity

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