

Human CellExp Kallikrein-3, human recombinant protein

KLK3, KLKB1, Kallikrein-3, APS, KLK2A1, PSA, Hk3, Seminin, Semenogelase Catalog # PBV11037r

Specification

Human CellExp Kallikrein-3, human recombinant protein - Product info

Primary Accession <u>P03952</u>

Calculated MW This protein is fused with 6×His tag at the

C-terminus, has a calculated MW of 27.7 kDa. The predicted N-terminus is Ala 18. DTT-reduced Protein migrates as 36 kDa

due to glycosylation. KDa

Human CellExp Kallikrein-3, human recombinant protein - Additional Info

Gene ID 3818
Gene Symbol KLK3

Other Names

KLK3, KLKB1, Kallikrein-3, APS, KLK2A1, PSA, Hk3, Seminin, Semenogelase

Gene Source

Source

Assay&Purity

Human

HEK293 cells

SDS-PAGE; ≥92%

Assay2&Purity2 N/A;
Recombinant Yes

Results Measured by its ability to cleave the

colorimetric peptide substrate, Succinyl -

Arg - Pro - Tyr - p - Nitroanilide

(Suc-RPY-pNA). The specific activity is >60

pmoles / min / μg.

Target/Specificity

Kallikrein-3

Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 μ g/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format

Lyophilized

Storage

-20°C; Lyophilized from 0.22 μ m filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.5. Normally Mannitol or Trehalose is added as protectants before lyophilization.

Human CellExp Kallikrein-3, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.



- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Human CellExp Kallikrein-3, human recombinant protein - Images

Human CellExp Kallikrein-3, human recombinant protein - Background

Kallikrein-3 (KLK3) is also known as Prostate-specific antigen (PSA), APS, Gamma-seminoprotein (Seminin), P-30 antigen, Semenogelase, is a glycoprotein enzyme, is a member of the kallikrein-related peptidase family and is secreted by the epithelial cells of the prostate gland. The preferential cleavage site of KLK3 is "-Tyr-|-Xaa-", the catalytic activity is inhibited by SERPINA5 and is strongly inhibited by Zn2+. KLK3 hydrolyzes semenogelin-1 thus leading to the liquefaction of the seminal coagulum.

Human CellExp Kallikrein-3, human recombinant protein - References

Chung D.W.,et al.Biochemistry 25:2410-2417(1986). Yu H.,et al.Genomics 69:225-234(2000). Ota T.,et al.Nat. Genet. 36:40-45(2004). Hillier L.W.,et al.Nature 434:724-731(2005). Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.