

Human CellExp Kallikrein-4, human recombinant protein
KLK4, Kallikrein-4, Prostate, KLK-L1, EMSP1, PRSS17, PSTS
Catalog # PBV11038r**Specification**

Human CellExp Kallikrein-4, human recombinant protein - Product infoPrimary Accession
Calculated MW[O9Y5K2](#)

This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 25.2 kDa. The predicted N-terminus is Ser 27. DTT-reduced Protein migrates as 30-32 kDa due to glycosylation. KDa

Human CellExp Kallikrein-4, human recombinant protein - Additional Info

Gene ID **9622**
Gene Symbol **KLK4**
Other Names
KLK4, Kallikrein-4, Prostate, KLK-L1, EMSP1, PRSS17, PSTS

Gene Source **Human**
Source **HEK293 cells**
Assay&Purity **SDS-PAGE; ≥92%**
Assay2&Purity2 **N/A;**
Recombinant **Yes**
Results **Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC. The specific activity is >200 pmoles / min / µg.**

Target/Specificity
Kallikrein-4**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/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 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.5. Normally Mannitol or Trehalose are added as protectants before lyophilization.**Human CellExp Kallikrein-4, 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 Cytometry](#)
- [Cell Culture](#)

Human CellExp Kallikrein-4, human recombinant protein - Images

Human CellExp Kallikrein-4, human recombinant protein - Background

Kallikrein-4 (KLK4) is also known as Enamel matrix serine proteinase 1 (EMSP1), Kallikrein-like protein 1 (KLK-L1), Prostase, Serine protease 17 (PRSS17), PSTS, which belongs to the peptidase S1 family and Kallikrein subfamily. KLK4 contains one peptidase S1 domain. KLK4 is expressed in prostate and involved in enamel formation. Defects in Kallikrein-4 / KLK4 are the cause of amelogenesis imperfecta hypomaturation type 2A1 (AI2A1) which is an autosomal recessive defect of enamel formation. The disorder involves both primary and secondary dentitions.

Human CellExp Kallikrein-4, human recombinant protein - References

Nelson P.S., et al. Proc. Natl. Acad. Sci. U.S.A. 96:3114-3119(1999).
Yousef G.M., et al. Cancer Res. 59:4252-4256(1999).
Stephenson S.A., et al. J. Biol. Chem. 274:23210-23214(1999).
Gan L., et al. Gene 257:119-130(2000).
Hu J.C.-C., et al. Gene 251:1-8(2000).