Human CellExp™ Kallikrein-11, human recombinant

CATALOG #: 7417-10 10 µg

ALTERNATE NAMES: KLK11, Kallikrein-11, Hippostasin, hK11, PRSS20, TLSP

SOURCE: HEK 293 cells (Glu 19 – Asn 250)

PURITY: ≥ 95% by SDS-PAGE gel

MOL. WEIGHT: This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 26.5 kDa. The predicted N-terminus is Glu 19. DTT-reduced Protein migrates as 35-45 kDa due to glycosylation.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

FORM: Lyophilized

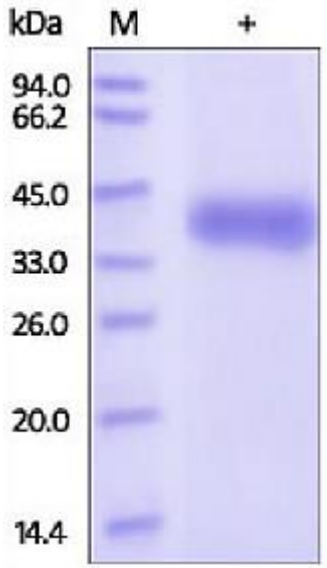
FORMULATION: Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 2 mM CaCl2, 150 mM NaCl, pH 7.5. Normally Mannitol or Trehalose is added as protectants before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: 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.

DESCRIPTION: Kallikrein 11 (KLK11) is also known as Hippostasin, Serine protease 20, Trypsin-like protease, PRSS20, TLSP, which belongs to the peptidase S1 family and Kallikrein subfamily. KLK11 contains one peptidase S1 domain. KLK11 is expressed in brain, skin and prostate. Isoform 1 is expressed preferentially in brain. Isoform 2 is expressed in prostate. Present in seminal plasma at concentrations ranging from 2 to 37 µg/mL (at protein level). Kallikrein 11 /KLK11 is a possible multifunctional protease and efficiently cleaves 'bz-Phe-Arg-4-methylcoumaryl-7-amide', a kallikrein substrate, and weakly cleaves other substrates for kallikrein and trypsin. KLK11 cleaves synthetic peptides after arginine but not lysine residues.

BIOLOGICAL ACTIVITY: Measured by its ability to cleave a colorimetric peptide substrate D-Val-Leu-Lys-ThioBenzyl ester (VLK-SBzl), in the presence of 5,5' Dithio-bis (2-nitrobenzoic acid) (DTNB). Edwards, K.M. *et al.* (1999). *J. Biol. Chem.* **274,** 30468. The specific activity is > 300 pmoles / min / µg.



Human recombinant Kallikrein-11

\RELATED PRODUCTS:

- Human CellExp™ Kallikrein-13, human recombinant **(Cat. No. 7413-10)**
- Human CellExp™ Kallikrein-1, human recombinant **(Cat. No. 7414-10)**
- Human CellExp™ Kallikrein-3, human recombinant **(Cat. No. 7415-10)**
- Human CellExp™ Kallikrein-4, human recombinant **(Cat. No. 7416-10)**
- Kallikrein, Human Plasma **(Cat # 4093-50)**
- KLK3 (Kallikrein-3), human recombinant **(Cat # 4727-20, -100, -1000)**
- Kallikrein 12 (KLK12) Antibody **(Cat # 3720-100)**
- Kallikrein 12 (KLK12) Blocking Peptide **(Cat # 3720BP-50)**

FOR RESEARCH USE ONLY! Not to be used in humans.