# Human CellExp™ KLK-8 / Kallikrein-8, human recombinant

**CATALOG #:** 7511-10 10 µg

**ALTERNATE NAMES:** KLK8, Kallikrein-8, Neuropsin, Ovasin, NRPN, PRSS19, TADG14, NP, hK8

**SOURCE:** HEK 293 cells (Gln 29 – Gly 260)

**PURITY:** ≥ 95% by SDS-PAGE gel

**MOL. WEIGHT:** This protein is fused with polyhistidine tag at the C-terminus, and has a calculated MW of 25.8 kDa. The predicted N-terminus is Gln 29. DTT-reduced Protein migrates as 38 kDa in SDS-PAGE due to glycosylation.

**ENDOTOXIN LEVEL:** < 1.0 EU per µg of the rhKLK-8 by the LAL method.

**FORM:** Lyophilized

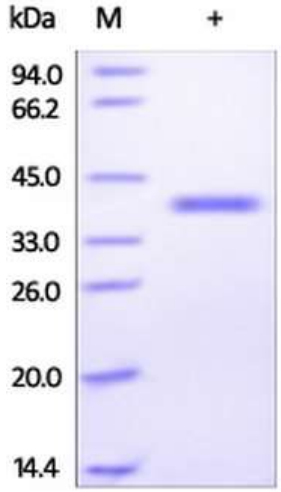
**FORMULATION:** Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH 8.0. Normally Mannitol or Trehalose are added as protectants before lyophilization.

**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -20°C or -70°C for up to 3 months. Avoid repeated freezing and thawing cycles. No activity loss was observed after storage in lyophilized state for 1 year (4ºC) and after reconstitution under sterile conditions for 3 months (-70ºC).

**RECONSTITUTION:** Centrifuge the vial prior to opening. Reconstitute in PBS, pH 7.4. Do not vortex.

**DESCRIPTION**: Kallikrein-8 (KLK8) is also known as Neuropsin (NP or NRPN), Ovasin, Serine protease 19 (PRSS19), Tumor-associated differentially expressed gene 14 protein (TADG-14), which belongs to the peptidase S1 family and Kallikrein subfamily. KLK8 contains 1 peptidase S1 domain. KLK8 is pH dependence protein and the optimum pH is 8.5, and the protein is active from pH 7-10. KLK8 is expressed at high levels in serum, ascites fluid and tumor cytosol of advanced stage ovarian cancer patients and may serve as a marker of ovarian cancer. KLK8 cleavage of amide substrates following the basic amino acids Arg or inhibited by a range of serine protease inhibitors including antipain, aprotinin, leupeptin, benzamidine and soybean trypsin inhibitor.

**BIOLOGICAL ACTIVITY:** Measured by its ability to inhibit thrombin cleavage of a fluorogenic peptide substrate Boc-VPR-AMC. The specific activity is >500 pmoles / min / µg.




**Human recombinant KLK-87 / Kallikrein-8.** The purity of rhKallikrein-8 /KLK8 was determined by DTT-reduced (+) SDS-PAGE and staining overnight with Coomassie Blue.

**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)**
- Human CellExp™ Kallikrein-11, human recombinant **(Cat. No. 7417-10)**
- Human CellExp™ Kallikrein-7, human recombinant **(Cat. No. 7510-10)**
- 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.***