



Recombinant Protein Technical Manual  
Recombinant Human Kallikrein 2/KLK2 Protein (His  
Tag)  
RPES2827

### Product Data:

**Product SKU:** RPES2827

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P20151

### Protein Information:

**Molecular Mass:** 27.9 kDa

**AP Molecular Mass:** 31 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM Citrate, 150mM NaCl, pH 3.5.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Kallikrein-2; Glandular Kallikrein; hGK; Tissue Kallikrein-2; KLK2

## Immunogen Information:

**Sequence:** Pro19-Pro261

## Background:

Kallikrein-2 (KLK2) is a secreted serine protease that belongs to the peptidase S1 family of Kallikrein subfamily. KLK2 contains 1 peptidase S1 domain. It is highly expressed in the human prostate gland. KLK2 can cleave Met-Lys and Arg-Ser bonds in kininogen to release Lys-bradykinin, but Preferential cleavages of Arg-|-Xaa bonds in small molecule substrates. It also highly selective action to release kallidin (lysyl-bradykinin) from kininogen involves hydrolysis of Met-|-Xaa or Leu-|-Xaa. KLK2 is inhibited by serpins such as protein C inhibitor, antichymotrypsin, and plasminogen. KLK2 is considered to be a biomarker for prostate cancer.