



Recombinant Protein Technical Manual  
Recombinant Human Kallikrein 1/KLK1 Protein (His  
Tag)  
RPES2787

Product Data:

**Product SKU:** RPES2787

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P06870

Protein Information:

**Molecular Mass:** 28.2 kDa

**AP Molecular Mass:** 38 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 TrisHCl, 150mM NaCl, 2mM CaCl<sub>2</sub>, pH 8.0.

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

**Application:**

**Synonyms:** Kallikrein; Kidney/Pancreas/Salivary Gland Kallikrein; Tissue Kallikrein; KLK1

## Immunogen Information:

**Sequence:** Pro19-Ser262

## Background:

Kallikrein (KLK1) is a member of human tissue Kallikrein family. Human KLK1 precursor contains a signal peptide (residues 1 to 18), a short pro peptide (residues 19 to 24) and a mature chain (residues 25 to 262). The function of KLK1 is to cleave Kininogen in order to release the vasoactive Kinin peptide (Lysyl-Bradykinin or Bradykinin). The Kinin peptide controls blood pressure reduction, vasodilation, smooth muscle relaxation and contraction, pain induction and inflammation. KLK1 also plays a role in angiogenesis and tumorigenesis.