



# Recombinant Protein Technical Manual

## Recombinant Mouse Kallikrein 1/KLK1 Protein (His Tag)

RPES1284

### Product Data:

**Product SKU:** RPES1284

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** P15947

### Protein Information:

**Molecular Mass:** 27.9 kDa

**AP Molecular Mass:** 34-38 kDa

**Tag:** C-His

**Bio-activity:**

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

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

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM Tris,150mM NaCl,pH7.5.

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

**Application:**

**Synonyms:** Glandular kallikrein K1; KAL-B; Renal kallikrein; Tissue kallikrein-6; mGK-6

## Immunogen Information:

**Sequence:** Pro19-Asp261

## Background:

Kallikreins belongs to the family of trypsin-like serine proteases, many of which are associated with a variety of cancers. Kallikrein 1 (KLK1) is also known as tissue kallikrein and urinary kallikrein. KLK1 is synthesized as a 261 amino acid (aa) protein that contains a 18 aa signal peptide and a 241 aa proprotein. An important physiological function of KLK1 cleaves Met-Lys and Arg-Ser bonds in kininogen to release Lys-bradykinin. Kinins regulate vasodilation, blood pressure reduction, smooth muscle relaxation and contraction, pain induction and inflammation.