



Recombinant Protein Technical Manual

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

RPE3906

Product Data:

Product SKU: RPE3906

Size: 10µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: P15947

Protein Information:

Molecular Mass: 28.3 kDa

AP Molecular Mass: 36 kDa

Tag: C-His

Bio-activity: Measured by its ability to cleave a flourogenic peptide substrate Pro-Phe-Arg-7-amido-4-methylcoumarin(PFR-AMC). The specific activity is >6,000 pmol/min/µg. (Activation description: The proenzyme needs to be activated by Thermolysin for an activated form)

Purity: > 90 % as determined by SDS-PAGE

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

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°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 sterile 25 mM Tris, 5 mM CaCl₂, 0.15 M NaCl, pH 7.4

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: Met1-Asp261

Background:

Human tissue kallikrein (KLK1) is a serine protease, component of the KKS that has been demonstrated to exert pleiotropic beneficial effects in protection from tissue injury through its antiinflammatory, antiapoptotic, antifibrotic and antioxidative actions. Polymorphism of the human tissue kallikrein 1 (KLK1) A1789G gene is associated with susceptibility to hypertension.