



Recombinant Protein Technical Manual

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

RPES4301

Product Data:

Product SKU: RPES4301

Size: 10µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_002248.1

Protein Information:

Molecular Mass: 28 kDa

AP Molecular Mass: 50 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 >1,500 pmoles/min/µg. (Activation description: The proenzyme needs to be activated by Thermolysin for an activated form)

Purity: > 95 % as determined by reducing 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 PBS, pH 7.4

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

Application:

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

Immunogen Information:

Sequence: Met 1-Ser 262

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.