



Recombinant Protein Technical Manual

**Recombinant Human Plasma Kallikrein/KLKB1
Protein (His Tag)**
RPES2062

Product Data:

Product SKU: RPES2062

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P03952

Protein Information:

Molecular Mass: 70.2 kDa

AP Molecular Mass: 75-87 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, 10% Glycerol, pH8.0.

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

Application:

Synonyms: Plasma kallikrein; Fletcher factor; Kininogenin; Plasma prekallikrein; KLKB1; KLK3

Immunogen Information:

Sequence: Gly20-Ala638

Background:

KLKB1 is a 638 amino acids protein that belongs to the peptidase S1 family and plasma kallikrein subfamily. It contains a peptidase S1 domain and four apple domains. The enzyme cleaves Lys-Arg and Arg-Ser bonds. It activates, in a reciprocal reaction, factor XII after its binding to a negatively charged surface. It also releases bradykinin from HMW kininogen and may also play a role in the renin-angiotensin system by converting prorenin into renin. It participates in the surface-dependent activation of blood coagulation, fibrinolysis, kinin generation and inflammation. Plasma prekallikrein deficiency causes a prolonged activated partial thromboplastin time in patients.