

**Recombinant Human Plasma Kallikrein/KLKB1 Protein(C-6His)**

**Cat.NO.: TP05364**

3th Edition

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

**Description:**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.

**Form:**PBS

**Molecular Weight:**70.2 kDa

**Sequences:**Gly20-Ala638

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.