

Product datasheet for **TP727235**

Plasma Kallikrein 1B (KLKB1) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Plasma Kallikrein/KLKB1 (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Gly20-Ala638
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 8.0.
Note:	Recombinant Human Plasma kallikrein is produced by our Mammalian expression system and the target gene encoding Gly20-Ala638 is expressed with a 6His tag at the C-terminus.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	3818
UniProt ID:	P03952
Synonyms:	Plasma kallikrein;Fletcher factor;Kininogenin;Plasma prekallikrein;KLKB1;KLK3
Summary:	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.
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Complement and coagulation cascades



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