

Recombinant Human Plasma Kallikrein/KLKB1 Protein (His Tag)



Catalog Number:PKSH032901

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms	Plasma kallikrein, Fletcher factor, Kininogenin, Plasma prekallikrein, KLKB1, KLK3
Species	Human
Expression Host	HEK293 Cells
Sequence	Gly20-Ala638
Accession	P03952
Calculated Molecular Weight	70.2 kDa
Observed molecular weight	75-87 kDa
Tag	C-6His
Bioactivity	Testing in progress

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein 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 Tris-HCl, 150mM NaCl, 10% Glycerol, pH8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the
Reconstitution	Not Applicable

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.

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