For Research Use Only

Recombinant Human Plasma kallikrein/KLKB1 protein (His Tag)

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Catalog Number: Eg1163

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human Plasma kallikrein/KLKB1 protein Gly20-Ala638 (Accession# P03952, Ser143Asn) with a His tag at the C-terminus.

GeneID:
3818

Accession:
P03952

Predicted Molecular Mass:
70.3 kDa

SDS-PAGE:

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Human Plasma Kallikrein, a serine protease also named as KLKB1, KLK3, PPK or Kininogenin, is synthesized in the liver and circulates in the plasma by binding to high molecular weight (HMW) kininogen or as a free zymogen. It cleaves HMW kininogen, its major physiological substrate, to release the potent vasodilator peptide bradykinin. It is also able to cleave a number of inactive precursor proteins to generate active products, such as plasminogen and prourokinase. Thus, it plays an important role in blood pressure regulation, fibrinolysis, and neutrophil activation.

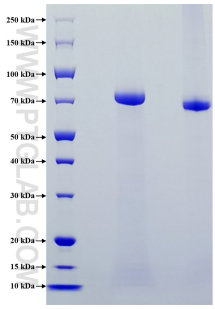
References

1. Sainz, Irma M et al. Thrombosis and haemostasis vol. 98,1 (2007): 77-83.
2. Neth, P et al. Thrombosis and haemostasis vol. 85,6 (2001): 1043-7.
3. Fink, Edwin et al. Biological chemistry vol. 388,9 (2007): 957-63.
4. Peek, Mark et al. The Journal of biological chemistry vol. 277,49 (2002): 47804-9.

Synonyms

KLKB1, Kininogenin, KLK3, KLKB 1, Plasma kallikrein

Selected Validation Data



Purity of Recombinant Human Plasma kallikrein/KLKB1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.