For Research Use Only

Recombinant Mouse Klk1 protein (rFc Tag)

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Catalog Number: Eg2996

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse Klk1 protein Pro19-Asp261 (Accession# P15947) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
16612

Accession:
P15947

Predicted Molecular Mass:
52.5 kDa

SDS-PAGE:
52-65 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in 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

Klk1, or kallikrein 1, is a serine protease and an important member of the kallikrein family. It is synthesized and secreted in various tissues, including the kidneys and salivary glands. The core function of Klk1 is to catalyze the cleavage of kininogen, generating highly bioactive kinins such as bradykinin. Kinins are key inflammatory mediators and vasoactive peptides that regulate blood pressure, inflammatory responses, pain perception, and vascular permeability through their receptors. Therefore, Klk1 and its kinin system play a central role in pathological processes such as hypertension, heart failure, inflammatory diseases, and angioedema. This system is also a critical downstream pathway through which classic drugs like ACE inhibitors exert their effects, while Klk1 itself serves as a potential target for novel anti-inflammatory and analgesic drugs.

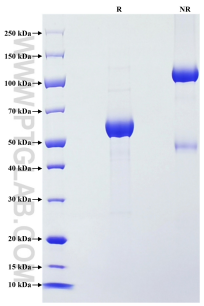
References

1. Zhou, Lisha et al. Advanced science (Weinheim, Baden-Wurttemberg, Germany) vol. 12,42 (2025): e07063. 2. Han

Synonyms

Kallikrein 1, EC:3.4.21.35, Glandular kallikrein K1, KAL-B, Kallikrein-1

Selected Validation Data



Purity of Recombinant Mouse Klk1 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.