For Research Use Only

Recombinant Human CD13 protein (rFc Tag)(HPLC verified)

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Catalog Number: Eg3748

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Endotoxin Level:
<0.1 EU/ μg protein, LAL method

Source:
HEK293-derived Human CD13 protein Lys69-Lys967 (Accession# P15144) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
290

Accession:
P15144

Predicted Molecular Mass:
129.0 kDa

SDS-PAGE:
130-150 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm 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

ANPEP (Aminopeptidase N) is a membrane-associated exonuclease, also known as CD13 or basic amino acid peptidase, that plays a role in glutathione metabolism and exhibits broad substrate specificity. The primary function of ANPEP is the N-terminal amino acid shearing of peptide chains, which participates in the degradation process of proteins, and is also implicated in the regulation of cell-surface antigen expression. ANPEP has been identified as a susceptibility gene for type 2 diabetes (T2D), but the mechanism by which it contributes to the development of the disease is not fully understood, and it has been suggested that it may be mediated through disruption of glutathione metabolism and redox homeostasis.

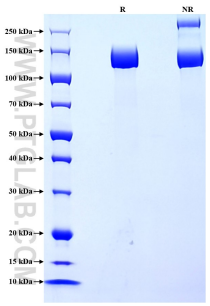
References

1. Kim JH,et al. Mol Cell Proteomics. 2022;21(11):100424.
2. Korvyakova Y, et al. Gene. 2025;935:149050.

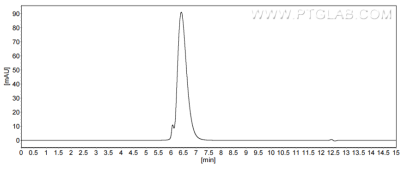
Synonyms

Alanyl aminopeptidase, Aminopeptidase M, Aminopeptidase N, ANPEP, AP-M

Selected Validation Data



Purity of Recombinant Human CD13 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.



The purity of Human CD13 was greater than 90% as determined by SEC-HPLC.