

For Research Use Only

Recombinant Mouse CD13 protein (rFc Tag)



Catalog Number: Eg3592

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 CD13 protein Asp66-Ser966 (Accession# P97449) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

16790

Accession:

P97449

Predicted Molecular Mass:

129.4 kDa

SDS-PAGE:

120-150 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°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C 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

CD13, also known as aminopeptidase N or membrane alanyl aminopeptidase, is a type II membrane 150kDa metalloprotease with an extracellular oriented catalytic domain. It is a seahorse-shaped molecule and usually forms a head-to-head homodimer by means of hydrophobic interactions. Each monomeric molecule of CD13 possesses a 7-domain organization, which is characteristic of M1 metallopeptidases. CD13 has been termed a "moonlighting enzyme" because of its multiple functions.

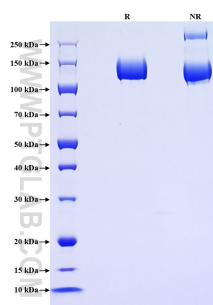
References

- 1.Wong AH. et al. (2012). J. Biol. Chem 287: 36804–36813.
- 2.Chen L. et al. (2012). Proc. Natl. Acad. Sci. U. S. A 109: 17966–17971.
- 3.Sjöström H. et al. (2000). Adv. Exp. Med. Biol 477: 25–34.
- 4.Mina-Osorio P. (2008). Trends Mol. Med 14: 361–371.

Synonyms

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

Selected Validation Data



Purity of Recombinant Mouse 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.

For technical support and original validation data for this product please contact

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