For Research Use Only

Recombinant Mouse CD9 protein (rFc Tag)

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Catalog Number: Eg1397

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 CD9 protein Thr110-Ile193 (Accession# P40240) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
12527

Accession:
P40240

Predicted Molecular Mass:
36.0 kDa

SDS-PAGE:
35-45 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

The cell-surface molecule CD9, a member of the transmembrane-4 superfamily, interacts with the integrin family and other membrane proteins, and is postulated to participate in cell migration and adhesion. Expression of CD9 enhances membrane fusion between muscle cells and promotes viral infection in some cells. It is often used as a mesenchymal stem cell marker. The CD9 antigen appears to be a 227-amino acid molecule with four hydrophobic domains and one N-glycosylation site. As an organizer of multi-molecular membrane complexes, the tetraspanin CD9 has been implicated in a number of biological processes, including cancer metastasis, and is a candidate therapeutic target.

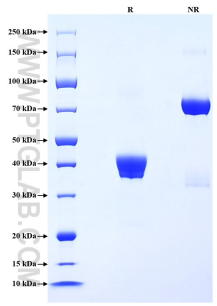
References

1. Tachibana I. et al. (1999). J Cell Biol. 146(4):893-904.
2. Meng X. et al. (2007). J Transl Med. 5:57.
3. Boucheix C. et al. (1991). J Biol Chem. 266(1):117-22.
4. SuwatthanarakT. et al. (2023). Biomater Adv. 146:213283

Synonyms

CD9 antigen, MIC3, P24, Tspan 29, TSPAN29

Selected Validation Data



Purity of Recombinant Mouse CD9 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.