

For Research Use Only

Recombinant Rat CD63 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3216

Basic Information

Species:
Rat

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

Tag:
rFc Tag

Technical Specifications

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

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

Source:
HEK293-derived Rat CD63 protein Arg108-Val203 (Accession# P28648) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
29186

Accession:
P28648

Predicted Molecular Mass:
37.2 kDa

SDS-PAGE:
40-50 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

Cluster of differentiation antigen 63 (CD63) is a member of transmembrane-4-superfamily of tetraspanin proteins and is a highly N-glycosylated type III lysosomal membrane protein. CD63 plays important roles in membrane transport, fusion, and protein kinase signaling. CD63 is a widely recognized extracellular vesicle (EV) marker that contributes to EV secretion from cells. CD63 is ubiquitously expressed and often considered to be a late endosomal, lysosomal, as well as an exosomal marker protein. CD63 is known to regulate malignancy of various types of cancers such as melanoma and breast cancer and serves as a potential marker for cancer detection.

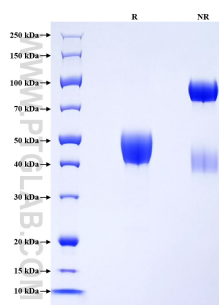
References

- 1.Song Z. et al. (2020) Molecules. 25(23):5585.
- 2.Dey S. et al. (2023) Adv Biol (Weinh). 7(7):e2300078.
- 3.Yanatori I. et al. (2021) Blood. 138(16):1490-1503.
- 4.Koh HM. et al. (2020) In Vivo. 34(5):2209-2215.

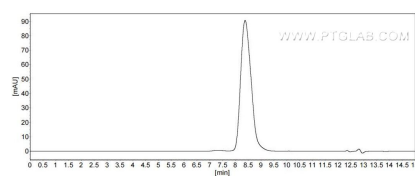
Synonyms

CD63 antigen, Mast cell antigen AD1

Selected Validation Data



Purity of Recombinant Rat CD63 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 Rat CD63 was greater than 90% as determined by SEC-HPLC.

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

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