For Research Use Only

Recombinant Human CD63 protein (rFc Tag)

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Catalog Number: Eg2064

Basic Information

ED50:
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Species:
Human

Purity:
>90 %, SDS-PAGE

GeneID:
967

Accession:
P08962

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/μg protein, LAL method

Source:
HEK293-derived Human CD63 protein Ala103-Val203 (Accession# P08962) with a rabbit IgG Fc tag at the C-terminus.

Predicted Molecular Mass:
37.6 kDa

SDS-PAGE:
42-58 kDa, reducing (R) condition

Formulation:
Lyophilized from sterile 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

CD63 is a 30-60 kDa lysosomal membrane protein that belongs to the tetraspanin family. This protein plays many important roles in immuno-physiological functions. It mediates signal transduction events that play a role in the regulation of cell development, activation, growth, and motility. CD63 is expressed on activated platelets, thus it may function as a blood platelet activation marker. CD63 is a lysosomal membrane glycoprotein that is translocated to plasma membrane after platelet activation. The CD63 tetraspanin is highly expressed in the early stages of melanoma and decreases in advanced lesions, suggesting it as a possible suppressor of tumor progression. Deficiency of this protein is associated with Hermansky-Pudlak syndrome.

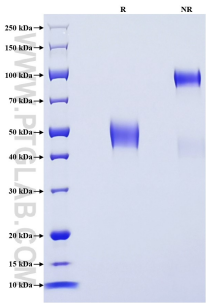
References

1. Ki-Kyung Jung, et al. (2006) EMBO J. Sep 6;25(17):3934-42.
2. Guillaume van Niel, et al. (2011) Dev Cell. Oct 18;21(4):708-21.
3. Maaike S Pols, Judith Klumperman. (2009) Exp Cell Res. May 15;315(9):1584-92.
4. D O Azorsa, et al. (1991) Blood. Jul 15;78(2):280-4.
5. M Nishibori, et al. (1993) J Clin Invest. Apr;91(4):1775-82.Maaike S Pols 1, Judith Klumperman

Synonyms

CD63,CD 63,CD63 antigen,Limp1,Lysosomal-associated

Selected Validation Data



Purity of Recombinant Human 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.