For Research Use Only

Recombinant Human CD93 protein (mFc Tag)

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Catalog Number: Eg3881

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
mFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Human CD93 protein Ala24-Lys580 (Accession# Q9NPY3) with a mouse IgG Fc tag at the C-terminus.

GeneID:
22918

Accession:
Q9NPY3

Predicted Molecular Mass:
84.7 kDa

SDS-PAGE:
100-130 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°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

CD93 (also known as complement protein 1 q subcomponent receptor C1qR1 or C1qRp), is a transmembrane glycoprotein, that belongs to the C-type lectin domain (CTLD) group 14 family of transmembrane glycoproteins together with thrombomodulin, CLEC14A, and CD248. This protein family has a similar ectodomain architecture and is involved in several cell processes including angiogenesis, inflammation, and cell adhesion. CD93 is predominantly co-expressed on tumor and stromal cells, such as endothelial cells, cancer-associated fibroblasts(CAFs), neutrophils, T cells, macrophages, M1 and M2 macrophages. Several immune-related signaling pathways were enriched based on CD93 expression, including immune cell activation and migration, focal adhesion, leukocyte transendothelial migration, oxidative phosphorylation, and complement.

References

1. Giovanni Tossetta. et al. (2023). Cells. 12(13):1778.
2. Kabir A Khan. et al. (2019). FEBS J. 286(17):3299-3332.
3. Aiyuan Guo. et al. (2022). Front Immunol. 13:907182.

Synonyms

C1QR1, C1qR, C1qR(p), C1qRp, Matrix-remodeling-associated protein 4

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

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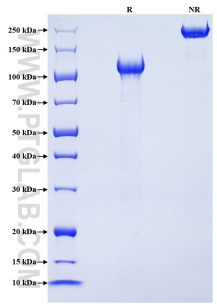
Selected Validation Data



Purity of Recombinant Human CD93 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.