

For Research Use Only

Recombinant Mouse CD72 protein (rFc Tag)



Catalog Number: Eg2708

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 CD72 protein Arg117-Asn354 (Accession# P21855) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

12517

Accession:

P21855

Predicted Molecular Mass:

54.9 kDa

SDS-PAGE:

55-65 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

CD72 is a type II transmembrane co-receptor expressed on B cells, playing a crucial role in regulating B cell activation and immune responses. It contains immunoreceptor tyrosine-based inhibitory motifs (ITIMs) that negatively regulate B cell receptor (BCR) signaling by recruiting the tyrosine phosphatase SHP-1. CD72 also interacts with CD5 on T cells, supporting its role in T-dependent B cell activation. In autoimmune diseases like systemic lupus erythematosus (SLE) and primary Sjögren's syndrome, CD72 expression is dysregulated, with increased levels of soluble CD72 correlating with disease activity. Additionally, CD72-deficient mice exhibit hyper-responsive B cells, highlighting its importance in maintaining immune homeostasis. These findings suggest that CD72 is a potential therapeutic target for modulating B cell activity in autoimmune and inflammatory conditions.

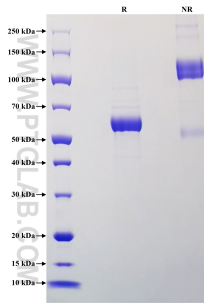
References

1. Parnes, J R, and C Pan. Immunological reviews vol. 176 (2000): 75-85.
2. Tsubata, Takeshi. Immune network vol. 19,1 (2019): e1.
3. Temple, William C et al. Journal for immunotherapy of cancer vol. 11,11 (2023): e006985.
4. Eiza, Nasren et al. Frontiers in immunology vol. 15 (2024): 1367120.

Synonyms

B-cell differentiation antigen CD72, Ly32, Ly-32, Lyb-2, Lymphocyte antigen 32

Selected Validation Data



Purity of Recombinant Mouse CD72 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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