

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:**

<1.0 EU/μg 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:**

63.8 kDa

**SDS-PAGE:**

**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

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

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

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data