

For Research Use Only

Recombinant Mouse CD74 protein (mFc Tag)



Catalog Number: Eg4048

Basic Information

Species:
Mouse

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 Mouse CD74 protein Gln56-Leu279 (Accession# P04441-1) with a mouse IgG Fc tag at the C-terminus.

GeneID:

16149

Accession:

P04441-1

Predicted Molecular Mass:

52.1 kDa

SDS-PAGE:

52-70 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

CD74, also known as MHC class II invariant chain Ii or HLA-DR-associated invariant chain, is a non-polymorphic type II transmembrane glycoprotein. CD74 is mainly distributed in B cells, monocytes, Langerhans cells, dendritic cells and thymic epithelial cells, and is also expressed in epithelial cells. CD74 plays a key role in MHC class II antigen processing and also serves as a cell surface receptor for the macrophage cytokine MIF. CD74 plays an important role in cardiovascular diseases such as atherosclerosis, ischemic heart disease, and myocardial hypertrophy.

References

1. Burton JD, et al. (2004). Clin Cancer Res. 1:10(19):6606-11.
2. Su H, et al. (2017). Inflamm Res. 66(3):209-216.
3. Zhang L, et al. (2024). Cell Mol Life Sci. 11;81(1):296.
4. Li QL, et al. (2023). Front Cardiovasc Med. 12;9:1049143.

Synonyms

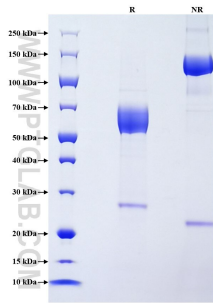
Class-II-associated invariant chain peptide, CLIP, H-2 class II histocompatibility antigen gamma chain, Ia antigen-associated invariant chain, Ii

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

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Selected Validation Data



Purity of Recombinant Mouse CD74 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.