

Recombinant Mouse ICAM-1/CD54 protein (His Tag)

Catalog Number: Eg0482

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse ICAM-1 protein Gln28-Asn485 (Accession# P13597-1) with a His tag at the C-terminus.

GeneID:

15894

Accession:

P13597-1

Predicted Molecular Mass:

51 kDa

SDS-PAGE:

70-100 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

Intercellular adhesion molecule 1 (ICAM-1, also known as CD54) is a transmembrane glycoprotein of the immunoglobulin superfamily and is critical for the firm attachment and transmigration of leukocytes out of blood vessels and into tissues. ICAM-1 is expressed by several cell types, typically on endothelial cells and cells of the immune system, and its expression can be up-regulated by various stimuli, including TNF-α, INF-γ, IL-1 and thrombin. It is a ligand for LFA-1 and Mac-1, serves as a receptor for rhinovirus, and is one of several receptors used by Plasmodium falciparum. ICAM-1 can exist as membrane-bound form (mICAM-1) and soluble form (sICAM-1). The sICAM-1 arises from alternative splicing and proteolysis of mICAM-1 and appears to be associated with leukocyte activation to produce LFA-1.

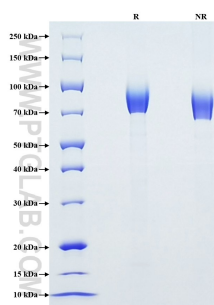
References

1. Lawson C, et al. (2009). Pharmacol Rep. 61(1):22-32.
2. Dustin ML, et al. (1986). J Immunol. 137(1):245-54.
3. Marlin SD, et al. (1987). Cell. 51(5):813-9.
4. Staunton DE, et al. (1989). Cell. 56(5):849-53.
5. Berendt AR, et al. (1989). Nature. 341(6237):57-9.
6. Ramos TN, et al. (2014). J Immunol. 192(10):4469-4474.

Synonyms

CD54, Icam-1, ICAM 1, Icam1, MALA-2

Selected Validation Data



Purity of Recombinant Mouse ICAM-1 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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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