

For Research Use Only

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



Catalog Number: Eg0570

Basic Information

ED50:
/

GeneID:
3383

Species:
Human

Accession:
P05362

Purity:
>95 %, SDS-PAGE

Technical Specifications

Purity:
>95 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human ICAM-1 protein Gln28-Glu480 (Accession# P05362) with a His tag at the C-terminus.

Predicted Molecular Mass:
53.6 kDa

SDS-PAGE:
60-75 kDa, reducing (R) conditions

Formulation:
Lyophilized from sterile 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.

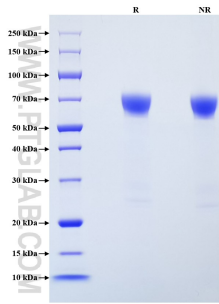
References

1. M L Dustin, et al. (1986) J Immunol. 137(1):245-54.
2. S D Marlin, et al. (1987) Cell. 51(5):813-9.
3. D E Staunton, et al. (1989) Cell. 56(5):849-53.
4. A R Berendt, et al. (1989) Nature. 341(6237):57-9.
5. Charlotte Lawson, et al. (2009) Pharmacol Rep. 61(1):22-32.

Synonyms

CD54, ICAM-1, BB2, ICAM 1, ICAM1

Selected Validation Data



Purity of Recombinant Human 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

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