

Human ICAM4 / CD242 Protein (Fc Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 13327-H02H

General Information

Gene Name Synonym:

CD242; LW

Protein Construction:

A DNA sequence encoding the human ICAM4 (NP_001034221.1) (Met1-Gly272) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: (50.3+36.1) % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 23

Molecular Mass:

The recombinant human ICAM4/Fc is a disulfide-linked homodimer. The reduced monomer comprises 491 amino acids and has a predicted molecular mass of 54.4 kDa. The apparent molecular mass of the protein is approximately 55 and 33 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

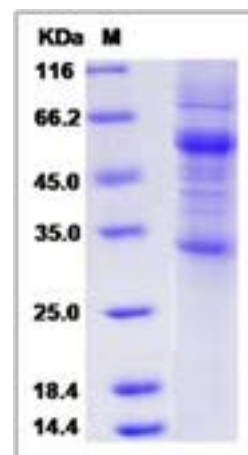
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

ICAM4, also known as CD242, is a member of the immunoglobulin superfamily, ICAM family. ICAM4 contains 2 Ig-like C2-type (immunoglobulin-like) domains. It is similar to the intercellular adhesion molecule (ICAM) protein family. ICAM4 binds to the leukocyte adhesion LFA-1 protein. ICAM4's first reported receptors were CD11a/CD18 and CD11b/CD18. ICAM4 functions as a ligand for the monocyte/macrophage-specific CD11c/CD18. Deletion of the individual immunoglobulin domains of ICAM4 demonstrated that both its domains contain binding sites for CD11c/CD18. CD11c/CD18 is expressed on macrophages in spleen and bone marrow. Inhibition of erythrophagocytosis by anti-ICAM4 and anti-integrin antibodies suggests a role for these interactions in removal of senescent red cells.

References

1.Gorst DW. et al., 1980, Vox Sanguinis. 38 (2): 99-105. 2.Vos GH. et al., 1973, Blood. 42 (3): 445-53. 3.Kim W. et al., 2011, Mol Cell. 44 (2): 325-40.

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