

Human LFA-3 / CD58 Protein (Fc Tag)

Catalog Number: 12409-H02H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

ag3; CD58; LFA-3; LFA3

Protein Construction:

A DNA sequence encoding the human CD58 (Q9BRW0) (Met1-Arg215) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

1. Measured by its binding ability in a functional ELISA. Immobilized human CD2-His (Cat:10982-H08H) at 10 µg/ml (100 µl/well) can bind human CD58-Fc, The EC₅₀ of human CD58-Fc is 0.04-0.1 µg/ml. 2. Measured by its binding ability in a functional ELISA. Immobilized Cynomolgus CD2-His (Cat:90300-C08H) at 10 µg/ml (100 µl/well) can bind human CD58-Fc, The EC₅₀ of human CD58-Fc is 0.04-0.10 µg/ml.

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: Phe 29

Molecular Mass:

The recombinant human CD58/Fc is a disulfide-linked homodimer. The reduced monomer comprises 428 amino acids and has a predicted molecular mass of 48.5 kDa. The apparent molecular mass of the protein is approximately 68 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:

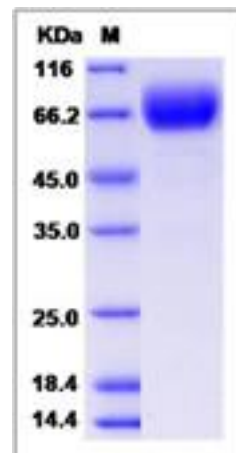
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CD53 is a member of the transmembrane 4 superfamily, also called the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. These proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. CD53 is a cell surface glycoprotein that is known to complex with integrins. Familial deficiency of CD53 gene has been linked to an immunodeficiency associated with recurrent infectious diseases caused by bacteria, fungi and viruses. CD53 contributes to the transduction of CD2-generated signals in T cells and natural killer cells and has been suggested to play a role in growth regulation.

References

1.Rochelle JM. et al., 1993, Int Immunol. 5 (2): 209-16. 2.Virtaneva KI. et al., 1993, Immunogenetics. 37 (6): 461-5. 3.Horejsí V. et al., 1991, FEBS Lett. 288 (1-2): 1-4.

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