

For Research Use Only

Recombinant Human CD2 protein (Myc Tag, His Tag)



Catalog Number: Eg0138

Basic Information

Species:

Human

Purity:

>90 %, SDS-PAGE

Tag:

Myc Tag, His Tag

EC50:

30-120 ng/mL

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human CD2 protein Lys25-Asp209 (Accession# P06729) with a Myc tag and a His tag at the C-terminus.

GeneID:

914

Accession:

P06729

Predicted Molecular Mass:

23.8 kDa

SDS-PAGE:

40-48 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human CD58 (His tag) at 0.5 μ g/mL (100 μ L/well) can bind Human CD2 (Myc tag, His tag) with a linear range of 30-120 ng/mL.

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

CD2 (also known as LFA-2, T-cell surface antigen T11/Leu-5, LFA-3 receptor, E-rosette receptor) is a member of the immunoglobulin superfamily. It is a transmembrane glycoprotein present on T cells, NK cells, thymocytes and dendritic cells. CD2 functions as an adhesion molecule, binding with lymphocyte function-associated antigen (LFA-3/CD58) in humans. It has also been reported to interact with CD48 and CD59. CD2 plays important roles in cell adhesion between T-cells/NK cells and other cell types, T-cell activation, NK-cell activation, and thymocyte development.

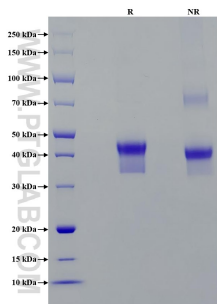
References

1. P A van der Merwe, et al. (1994) Biochemistry. 33(33):10149-60.
2. S J Davis, et al. (1996) Immunol Today. 17(4):177-87.
3. A L Wilkins, et al. (2003) Curr Protein Pept Sci. 4(5):367-73.
4. Christian Binder, et al. (2020) Front Immunol. 11:1090.

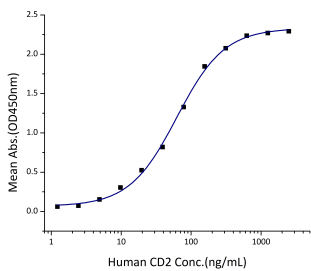
Synonyms

CD2, CD2 molecule, Erythrocyte receptor, LFA 2, LFA 3 receptor

Selected Validation Data



Purity of Recombinant Human CD2 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.



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