For Research Use Only

Recombinant Human CD58 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg4236

Basic Information

Species: Human

Purity: >90 %, SDS-PAGE
>90 %, SEC-HPLC

Technical Specifications

Purity: >90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

HEK293-derived Human CD58 protein Phe29-Arg215 (Accession# Q9BRWO) with a rabbit IgG Fc tag at the Cterminus.

GeneID: 965

Accession: Q9BRW0

Predicted Molecular Mass: 47.7 kDa

SDS-PAGE

55-80 kDa, reducing (R) conditions

Lyophilized from 0.22 $\,\mu$ m 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.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD58, also known as LFA-3 (Lymphocyte Function-Associated Antigen 3), is a cell surface glycoprotein that plays a crucial role in immune cell interactions. It is a member of the immunoglobulin superfamily and acts as a ligand for CD2, primarily expressed in T and NK cells. The CD2-CD58 interaction is an important component of the immunological synapse that induces activation and proliferation of T/NK cells, triggering a series of intracellular signaling pathways. CD58 has been implicated in various diseases, particularly in the context of cancer. It acts as a tumor promotor in hepatocellular carcinoma via activating the AKT/GSK-3 β / β -catenin pathway.

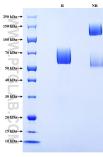
References

1.Wang C. et al. (2023). J Transl Med. 21(1):539. 2.Zhang Y. et al. (2021). Front Immunol. 12:705260. 3.Wu B. et al. (2024). Commun Biol. 7(1):1025.

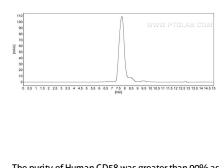
Synonyms

Ag3, CD58 molecule, LFA 3, LFA3, Lymphocyte function-associated antigen 3

Selected Validation Data



Purity of Recombinant Human CD58 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.



The purity of Human CD58 was greater than 90% as determined by SEC-HPLC.