

CD58 active protein

CD58 Protein, Human, Recombinant (hFc Tag)

CATALOG #
AAA258011

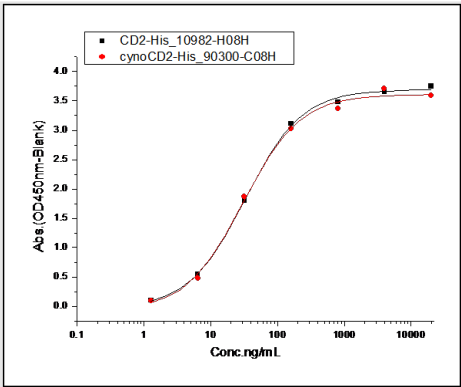
HOST
HEK293 Cells

PRODUCT SYNONYMS

CD58; CD58 Protein; Human; Recombinant (hFc Tag); Human LFA-3/CD58 Protein (Fc Tag); ag3 Protein; LFA-3 Protein; LFA3 Protein; CD58 molecule; CD58 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Arg215
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Phe 29
Tag	C-human IgG1-Fc
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.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. Immobilized human CD2-His at 10ug/ml (100uL/well) can bind human CD58-Fc. The EC50 of human CD58-Fc is 0.04-0.1ug/ml. 2. Measured by its binding ability in a functional ELISA. Immobilized Cynomolgus CD2-His at 10ug/ml (100uL/well) can bind human CD58-Fc. The EC50 of human CD58-Fc is 0.04-0.10ug/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data

1. Measured by its binding ability in a functional ELISA. Immobilized human CD2-His at 10 ug/ml (100 ul/well) can bind human CD58-Fc, The EC50 of human CD58-Fc is 0.04-0.1 ug/ml.
2. Measured by its binding ability in a functional ELISA. Immobilized Cynomolgus CD2-His at 10 ug/ml (100 ul/well) can bind human CD58-Fc, The EC50 of human CD58-Fc is 0.04-0.10 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for CD58 active protein

Background: 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

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	74732934
UniProt Accession #	Q9BRW0
Molecular Weight	27,044 Da
NCBI Official Full Name	CD58 protein
UniProt Protein Name	CD58 protein
UniProt Gene Name	CD58

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.