

Recombinant Human CD58 protein, Fc-tagged

Cat. No. CD58-348H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD58 protein (Phe29-Arg215), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	187
Description	CD antigen CD58 is also known as Lymphocyte function-associated antigen 3 (LFA-3). CD58 is a cell adhesion molecule expressed on Antigen Presenting Cells (APC), particularly macrophages. CD58/LFA3 is ligand of the T-lymphocyte CD2 glycoprotein, which binds to CD2 (LFA-2) on T cells and is important in strengthening the adhesion between the T cells and Professional Antigen Presenting Cells. In addition, the LFA-3/CD2 interaction may prime response by both the CD2+ and LFA-3+ cells. Polymorphisms in the CD58 gene are associated with increased risk for multiple sclerosis.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 48.1 kDa. As a result of different glycosylation, the protein migrates as 60-75 kDa under reducing (R) condition, and 125-150 kDa under non-reducing (NR) condition (SDS-PAGE).

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Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

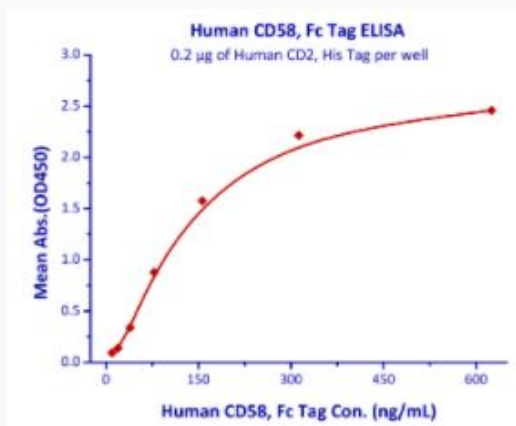
Gene Name	CD58
Official Symbol	CD58
Synonyms	ag3; LFA3; LFA-3
Gene ID	965
mRNA Refseq	NM_001779.3
Protein Refseq	NP_001770.1
MIM	153420
UniProt ID	Q9BRW0

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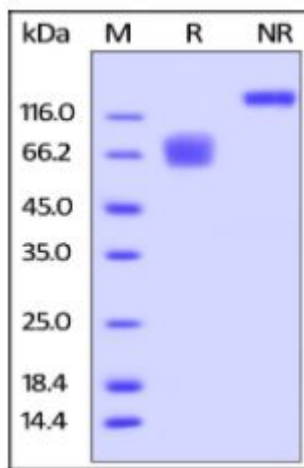
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Bioactivity-ELISA of CD58-348H



Immobilized Human CD2, His Tag at 2µg/mL (100 µL/well) can bind Human CD58, Fc Tag with a linear range of 10-156 ng/mL (QC tested).

SDS-PAGE of CD58- 348H



Human CD58, Fc Tag on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.