

Recombinant Human CD58 protein, His-tagged

Cat. No. CD58-462H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD58 (Phe29-Arg215) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Phe29-Arg215
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.
Predicted N Terminal	Phe29
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 22.3 kDa. The protein migrates as 30-45 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.</p>
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	CD58; CD58 molecule; CD58 antigen, (lymphocyte function associated antigen 3), LFA3; lymphocyte function-associated antigen 3; surface glycoprotein LFA-3; CD58 antigen, (lymphocyte function-associated antigen 3); ag3; LFA3; LFA-3; FLJ23181; FLJ43722
Gene ID	965
mRNA Refseq	NM_001144822
Protein Refseq	NP_001138294

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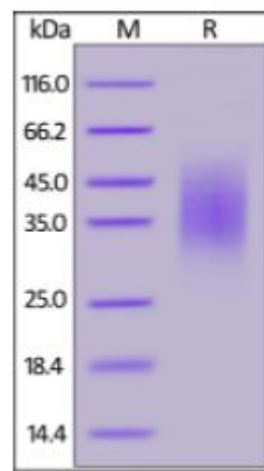
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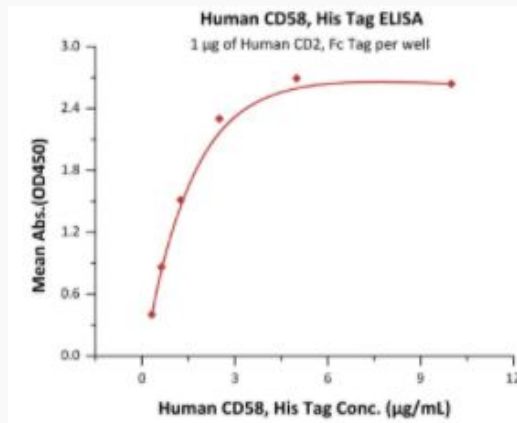
UniProt ID P19256

SDS-PAGE of CD58-462H



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

Bioactivity-ELISA of CD58-462H



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Immobilized Human CD2, Fc Tag at 10 µg/mL (100 µL/well) can bind Human CD58, His Tag with a linear range of 0.078-2.5 µg/mL (QC tested).

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