

**Synonym**

CD58,LFA3,Ag3

Source

Human CD58, His Tag(LF3-H5225) is expressed from human 293 cells (HEK293). It contains AA Phe 29 - Arg 215 (Accession # [AAH05930](#)). Predicted N-terminus: Phe 29

Molecular Characterization

CD58(Phe 29 - Arg 215)	Poly-his
AAH05930	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 22.3 kDa. The protein migrates as 30-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

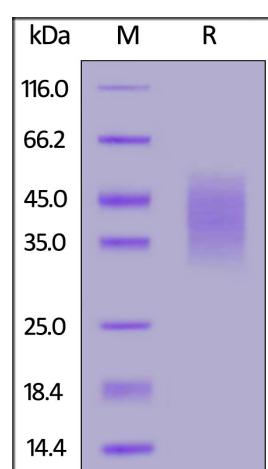
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

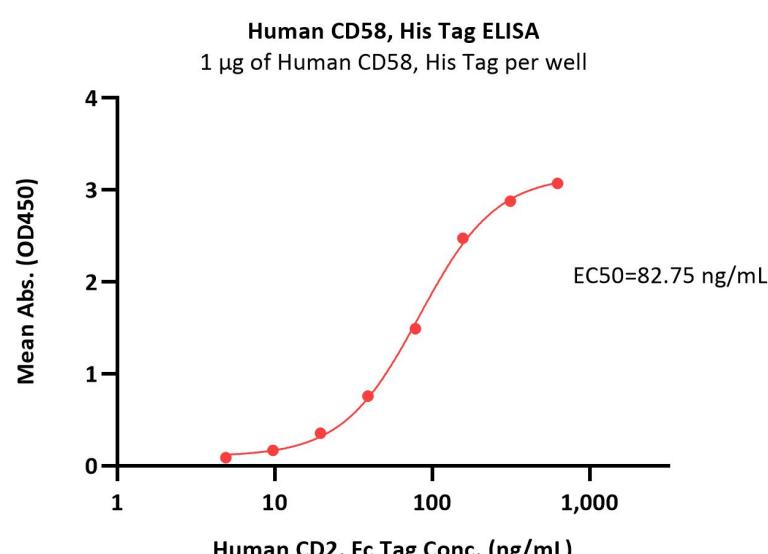
Human CD58, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

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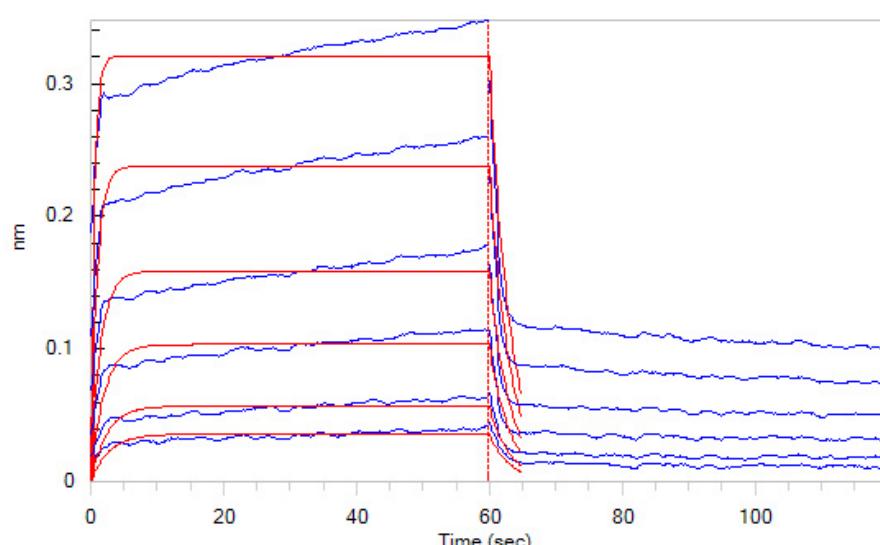


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Immobilized Human CD58, His Tag (Cat. No. LF3-H5225) at 10 µg/mL (100 µL/well) can bind Human CD2, Fc Tag (Cat. No. CD2-H5258) with a linear range of 5-78 ng/mL (QC tested).

Bioactivity-BLI



Loaded Human CD2, Fc Tag (Cat. No. CD2-H5258) on Protein A Biosensor, can bind Human CD58, His Tag (Cat. No. LF3-H5225) with an affinity constant of 2.3 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

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) [3] 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.

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