



Synonym

CD46, AHUS2, MCP, MIC10, TLX, TRA2.10

Source

Human CD46 Protein, Fc Tag (CD6-H5254) is expressed from human 293 cells (HEK293). It contains AA Cys 35 - Lys 159 (Accession # [P15529-1](#)).

Predicted N-terminus: Cys 35

Molecular Characterization

CD46(Cys 35 - Lys 159)	Fc(Pro 100 - Lys 330)
P15529-1	P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 40.8 kDa. The protein migrates as 50-60 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

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

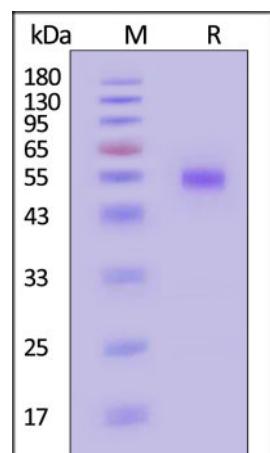
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

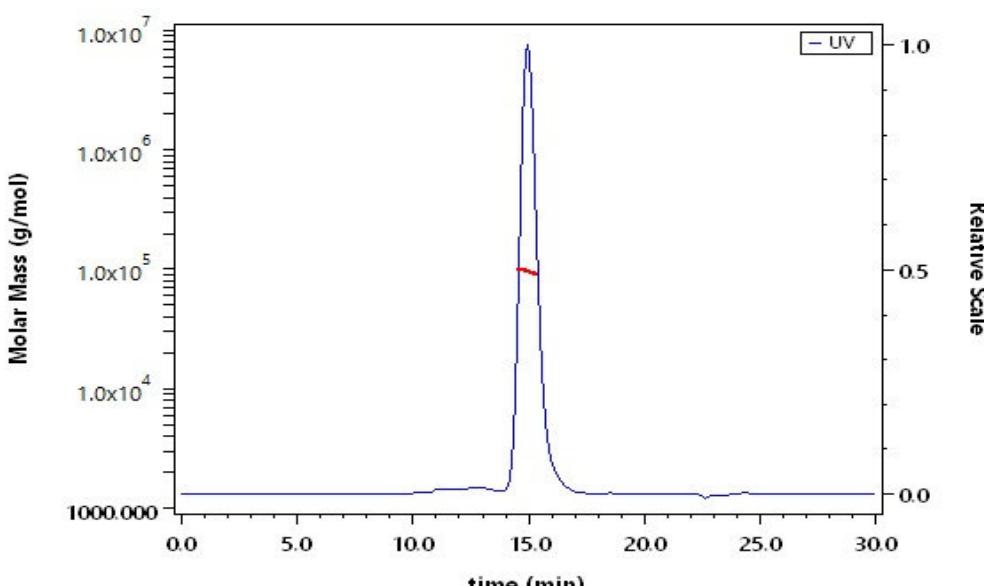
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human CD46 Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human CD46 Protein, Fc Tag (Cat. No. CD6-H5254) is more than 95% and the molecular weight of this protein is around 85-105 kDa verified by SEC-MALS.

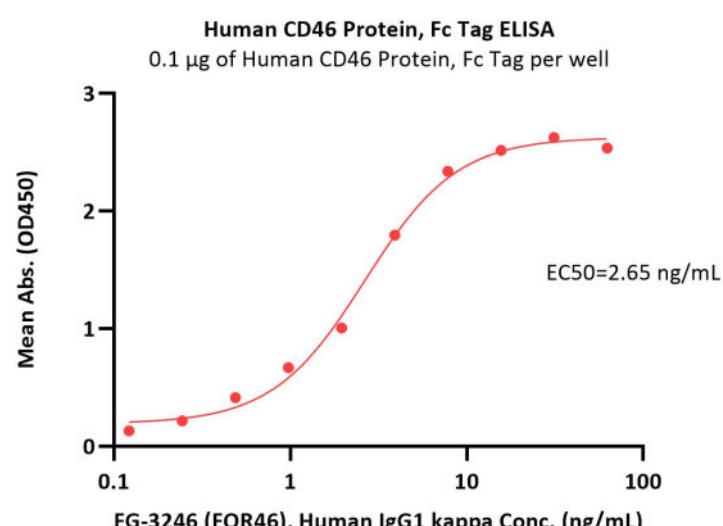
[Report](#)

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Immobilized Human CD46 Protein, Fc Tag (Cat. No. CD6-H5254) at 1 µg/mL (100 µL/well) can bind FG-3246 (FOR46), Human IgG1 kappa with a linear range of 0.1-8 ng/mL (QC tested).

Background

Complement regulatory protein CD46 is also known as membrane Cofactor Protein (MCP), is a type I membrane protein and is a regulatory part of the complement system. CD46 is expressed by all cells except erythrocytes. MCP acts as a cofactor for complement factor I, a serine protease which protects autologous cells against complement-mediated injury by cleaving C3b and C4b deposited on host tissue, and also acts as a costimulatory factor for T-cells which induces the differentiation of CD4+ into T-regulatory 1 cells. In T-cells by binding to CD46, A number of viral and bacterial pathogens seem to exploit this property and directly induce an immunosuppressive phenotype. Defects in CD46 are a cause of susceptibility to hemolytic uremic syndrome atypical type 2 (AHUS2).

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