

# Human CD46 Protein, His Tag (MALS verified)

Catalog # CD6-H5226



## Synonym

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

## Source

Human CD46, His Tag(CD6-H5226) is expressed from human 293 cells (HEK293). It contains AA Cys 35 - Asp 328 (Accession # [P15529-3](#)).

Predicted N-terminus: Cys 35

## Molecular Characterization

CD46(Cys 35 - Asp 328)  
P15529-3 Poly-his

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

The protein has a calculated MW of 33.6 kDa. The protein migrates as 45-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm 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

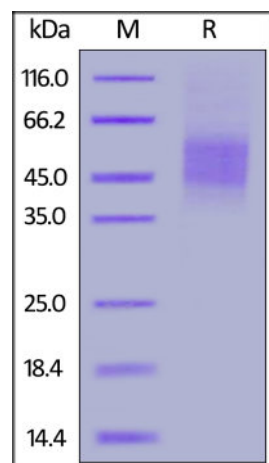
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

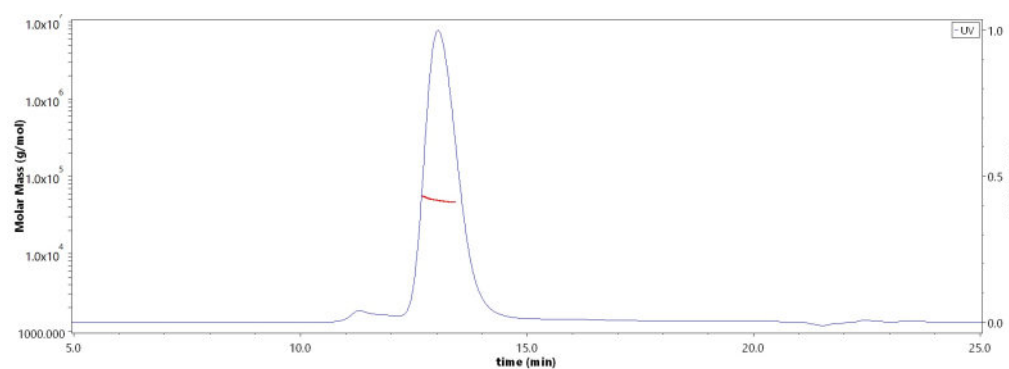
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human CD46, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## SEC-MALS



The purity of Human CD46, His Tag (Cat. No. CD6-H5226) is more than 95% and the molecular weight of this protein is around 40-55 kDa verified by SEC-MALS.

[Report](#)

## 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

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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).

### Clinical and Translational Updates

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