

# Recombinant Human CD46 protein (rFc Tag)(HPLC verified)

Catalog Number: Eg1770

## Basic Information

**Species:**  
Human**Purity:**  
>90 %, SDS-PAGE<br> >90 %, SEC-HPLC**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE<br> >90 %, SEC-HPLC**Endotoxin Level:**  
<0.1 EU/ µg protein, LAL method**Source:**  
HEK293-derived Human CD46 protein Cys35-Asp328 (Accession# P15529-11) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**  
4179**Accession:**  
P15529-11**Predicted Molecular Mass:**  
59.1 kDa**SDS-PAGE:**  
68-85 kDa, reducing (R) conditions**Formulation:**  
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

CD46, also known as Membrane cofactor protein (MCP) or MIC10, is a ubiquitously expressed type I transmembrane glycoprotein that acts as a cofactor for complement factor I to mediate inactivation of C3b and C4b deposited on host cells. CD46 is a receptor for a large number of pathogens, including measles virus and adenovirus. CD46 plays a role in linking innate and adaptive immune responses. It may be involved in the fusion of the spermatozoa with the oocyte during fertilization. Mutations of the CD46 gene have been associated with some diseases including hemolytic uremic syndrome. CD46 is expressed on most cells as four isoforms that are derived via alternative splicing.

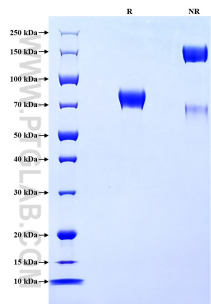
## References

1. Persson BD. et al. (2010) PLoS Pathog. 6(9):e1001122.
2. Liszewski MK. et al. (2015) Hum Genomics. 9(1):7.
3. Riley-Vargas RC. et al. (2004) Trends Immunol. 25(9):496-503.

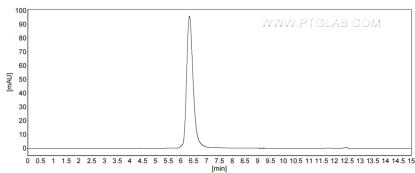
## Synonyms

MCP, Membrane cofactor protein, MIC10, TLX, TRA2.10

Selected Validation Data



Purity of Recombinant Human CD46 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human CD46 was greater than 90% as determined by SEC-HPLC.