

Recombinant Human CD46 Protein

Catalog No.: RP00279 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	4179	P15529-11

Tags

C-His

Synonyms

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

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

The recombinant human CD46 consists of 305 amino acids with a molecular weight of 34 kDa. The apparent molecular mass of recombinant human CD46 is about 55-60 kDa in SDS-PAGE under reducing conditions due to glycosylation. CD46 is also known as MCP and is a type I membrane protein that functions as a cofactor for Complement Factor I-mediated inactivation of complement components C3b and C4b. CD46 is expressed in white blood cells, platelets, epithelial cells, and fibroblasts. 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), a disease characterized by uncontrolled complement activation.

Basic Information

Description

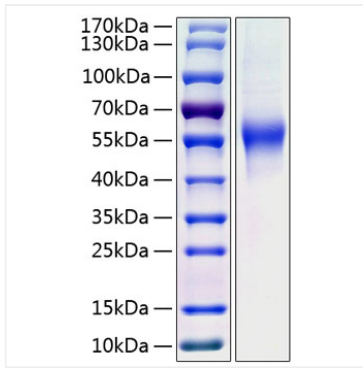
Recombinant Human CD46 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys35-Asp328) of human CD46 (Accession #NP_758861.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human CD46 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-60 kDa.