

Active Recombinant Human CD46 Protein, Fc Tagged

Cat. No. CD46-11211H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD46 Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Cys 35-Lys 159 (Accession # P15529-1). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Cys 35
Species	Human
Source	HEK293
ProteinLength	35-159 aa
Description	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).
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Human CD46 Protein, Fc Tag 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.

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Molecular Mass	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/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD46 CD46 molecule, complement regulatory protein [Homo sapiens (human)]
Official Symbol	CD46
Synonyms	CD46; CD46 molecule, complement regulatory protein; antigen identified by monoclonal TRA 2 10, CD46 antigen, complement regulatory protein, MCP, membrane cofactor protein (CD46, trophoblast lymphocyte cross reactive antigen), MIC10; membrane cofactor protein; MGC26544; TLX; TRA2.10; measles virus receptor; complement membrane cofactor protein; trophoblast leucocyte common antigen; trophoblast leukocyte common antigen; CD46 antigen, complement regulatory protein; trophoblast-lymphocyte cross-reactive antigen; antigen identified

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by monoclonal TRA-2-10; membrane cofactor protein (CD46, trophoblast-lymphocyte cross-reactive antigen); MCP; AHUS2; MIC10;

Gene ID	4179
mRNA Refseq	NM_002389
Protein Refseq	NP_002380
MIM	120920
UniProt ID	P15529

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