



## Synonym

CD47,MER6,IAP,OA3

## Source

Biotinylated Human CD47, Mouse IgG2a Fc,Avitag(CD7-H82A3) is expressed from human 293 cells (HEK293). It contains AA Gln 19 - Pro 139 (Accession # [Q08722-3](#)).

Predicted N-terminus: Gln 19

## Molecular Characterization

CD47(Gln 19 - Pro 139) Q08722-3	mFc(Glu 98 - Lys 330) P01863	Avi
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This protein carries a mouse IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 42.3 kDa. The protein migrates as 60-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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

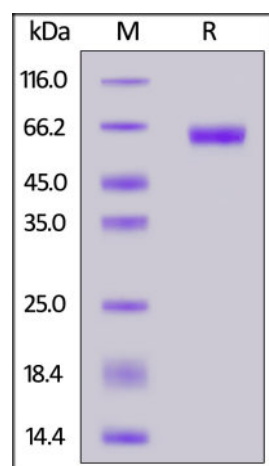
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

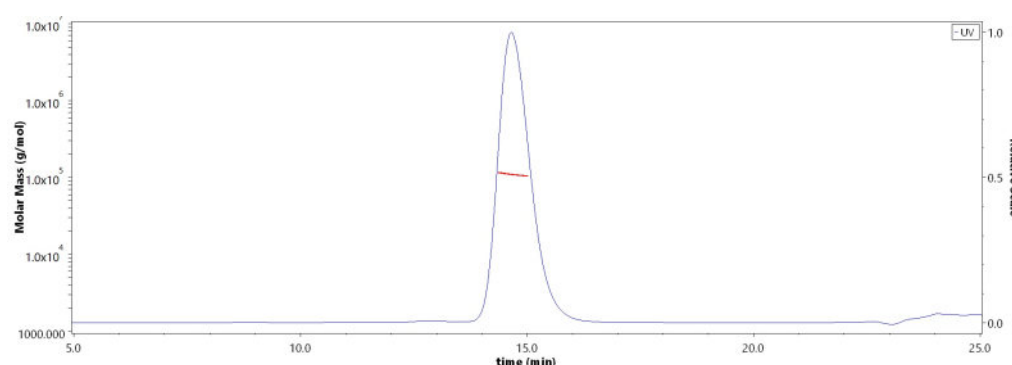
## SDS-PAGE



Biotinylated Human CD47, Mouse IgG2a Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

## SEC-MALS

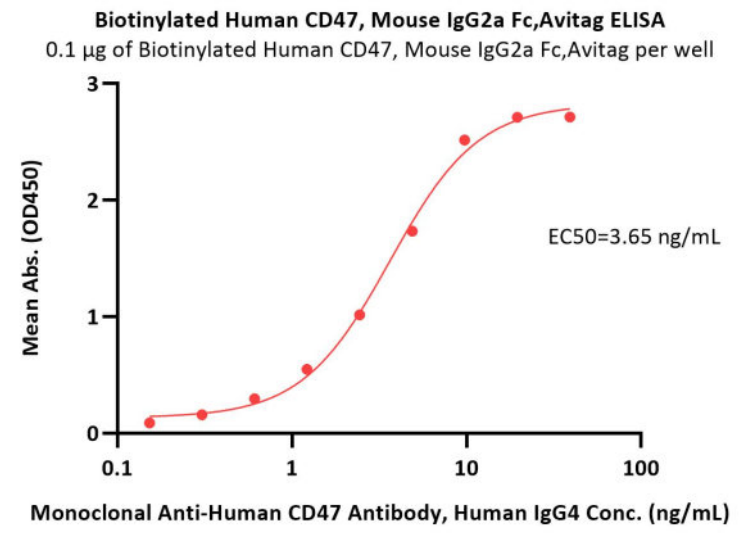
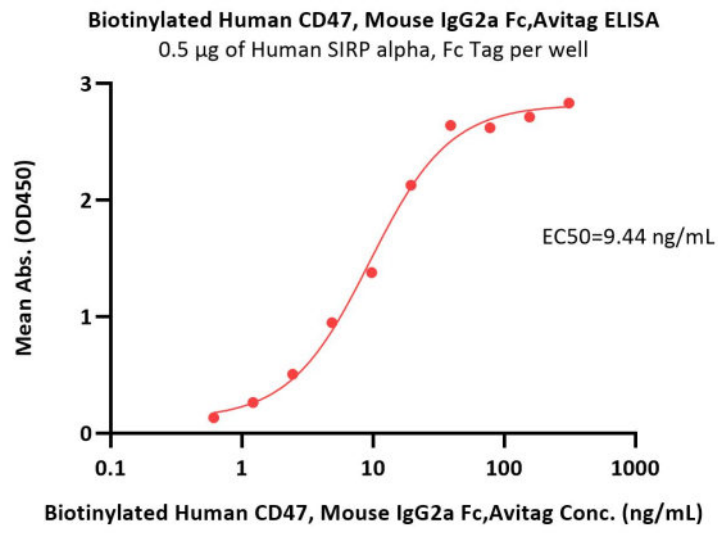


The purity of Biotinylated Human CD47, Mouse IgG2a Fc,Avitag (Cat. No. CD7-H82A3) is more than 90% and the molecular weight of this protein is around 105-115 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Human SIRP alpha, Fc Tag (Cat. No. SIA-H5251) at 5 µg/mL (100 µL/well) can bind Biotinylated Human CD47, Mouse IgG2a Fc,Avitag (Cat. No. CD7-H82A3) with a linear range of 5-20 ng/mL (QC tested).

Immobilized Biotinylated Human CD47, Mouse IgG2a Fc,Avitag (Cat. No. CD7-H82A3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Monoclonal Anti-Human CD47 Antibody, Human IgG4 with a linear range of 1-10 ng/mL (Routinely tested).

### Background

Leukocyte surface antigen CD47 is also known as Antigenic surface determinant protein OA3, Integrin-associated protein (IAP) and Protein MER6. CD47 contains 1 Ig-like V-type (immunoglobulin-like) domain. CD47 is very broadly distributed on normal adult tissues. CD47 has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins and plays an important role in memory formation and synaptic plasticity in the hippocampus by similarity. CD47 is the receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. CD47 Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation.

### Clinical and Translational Updates

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