



## Synonym

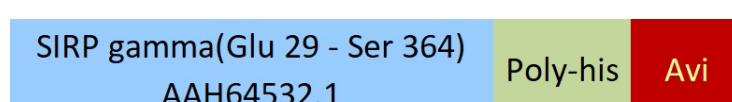
SIRPG,CD172g,SIRPB2,SIRP-gamma,SIRP-b2,SIRP-beta-2

## Source

Biotinylated Human SIRP gamma, His,Avitag(SIG-H82E3) is expressed from human 293 cells (HEK293). It contains AA Glu 29 - Ser 364 (Accession # [AAH64532.1](#)).

Predicted N-terminus: Glu 29

## Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 40.7 kDa. The protein migrates as 48-55 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.

## Purity

>95% as determined by SDS-PAGE.

>90% 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

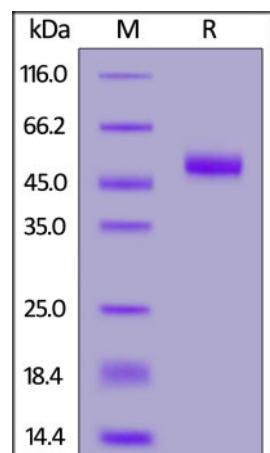
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

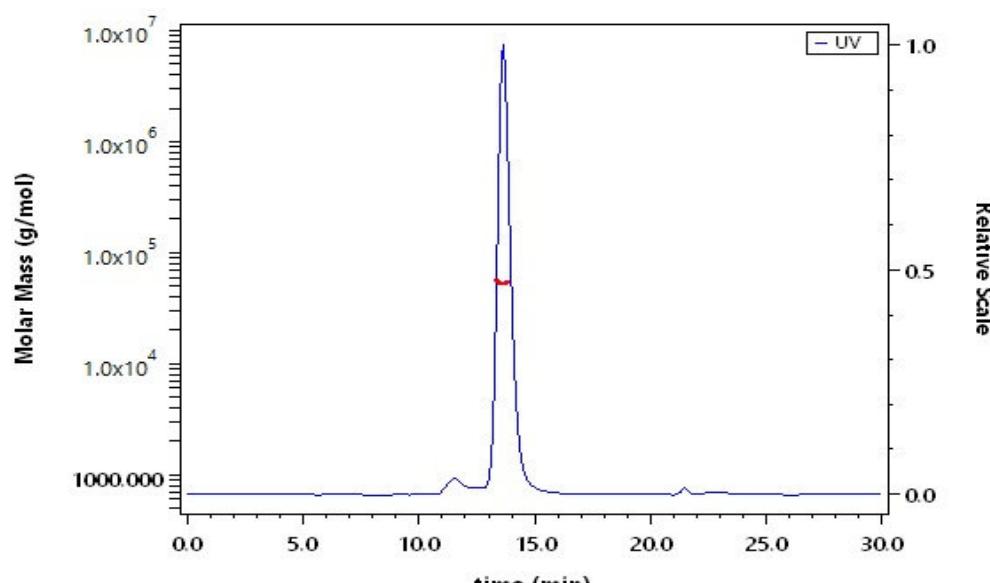
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



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

## SEC-MALS



The purity of Biotinylated Human SIRP gamma, His,Avitag (Cat. No. SIG-H82E3) is more than 90% and the molecular weight of this protein is around 45-57 kDa verified by SEC-MALS.

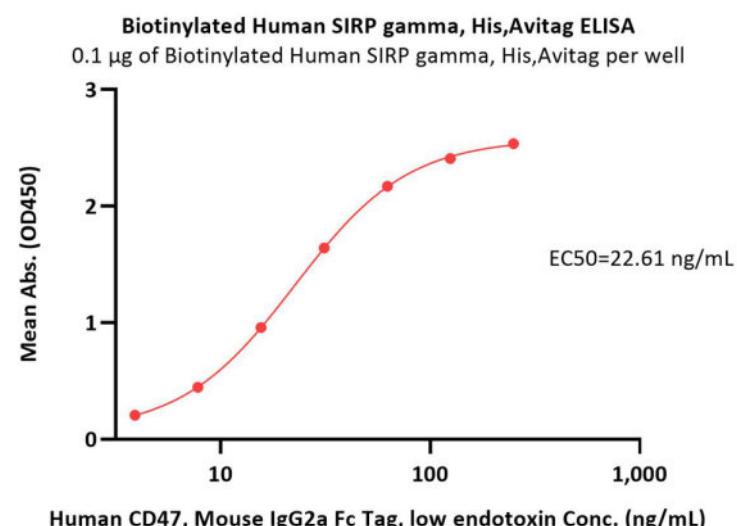
[Report](#)

## Bioactivity-ELISA

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Immobilized Biotinylated Human SIRP gamma, His,Avitag (Cat. No. SIG-H82E3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human CD47, Mouse IgG2a Fc Tag (Cat. No. CD7-H52A5) with a linear range of 4-31 ng/mL (QC tested).

## Background

Signal-regulatory protein gamma (SIRPG or SIRP-gamma) is also known as CD172 antigen-like family member B (CD172g), Signal-regulatory protein beta-2 (SIRPB2), is a single-pass type I membrane protein. SIRPG is expressed on CD4+ T-cells, CD8+ T-cells, CD56-bright natural killer (NK) cells, CD20+ cells, and all activated NK cells. SIRPG interacts with CD47. On binding with CD47, CD172g mediates cell-cell adhesion.

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