Biotinylated Human SIRP gamma / CD172g Protein, His,Avitag™ (MALS verified)

Catalog # SIG-H82E3

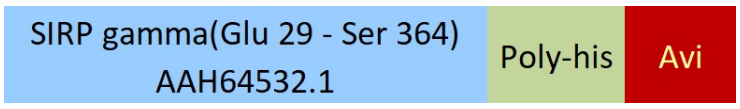
Synonym

SIRPG,CD172g,SIRPB2,SIRP-gamma,SIRP-b2,SIRP-beta-2,Cripto-1

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.

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 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

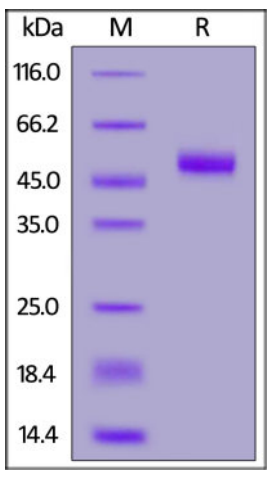
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

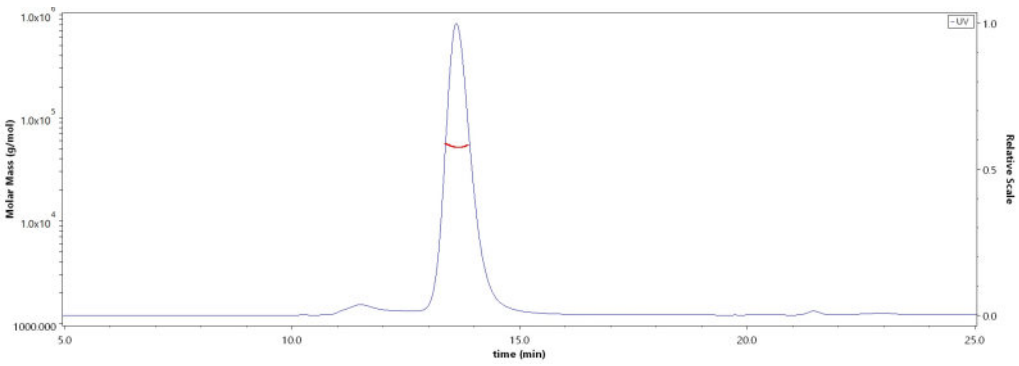
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



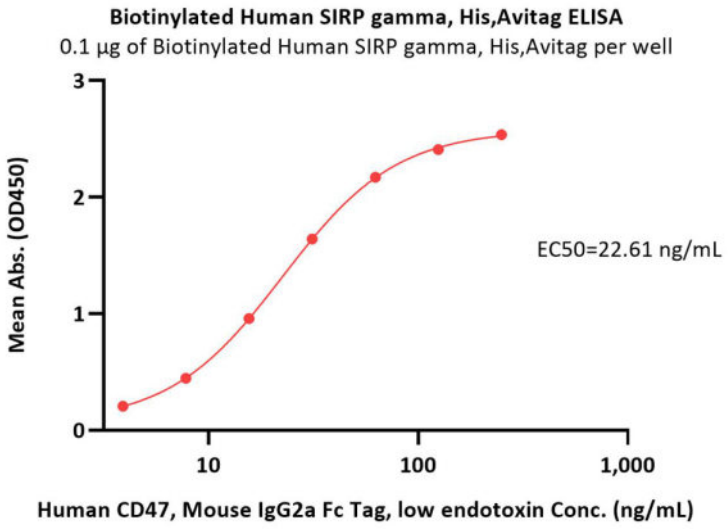
Biotinylated Human SIRP gamma, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

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



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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.