



## Synonym

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

## Source

Human SIRP gamma, Fc Tag(SIG-H5253) is expressed from human 293 cells (HEK293). It contains AA Glu 29 - Ser 364 (Accession # [AAH64532](#)).

Predicted N-terminus: Glu 29

## Molecular Characterization

SIRP gamma(Glu 29 - Ser 364) AAH64532	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 63.7 kDa. The protein migrates as 67-85 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 100 mM Glycine, 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

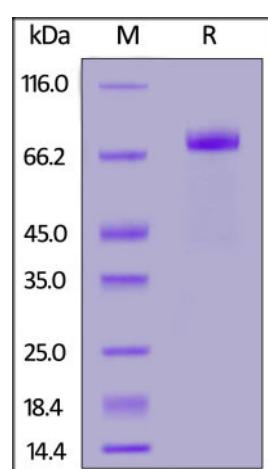
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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



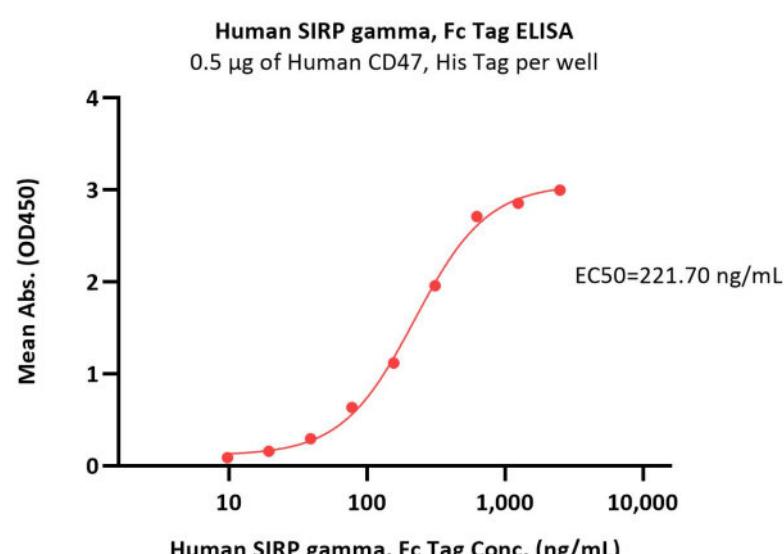
Human SIRP gamma, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

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Immobilized Human CD47, His Tag (Cat. No. CD7-H5227) at 5 µg/mL (100 µL/well) can bind Human SIRP gamma, Fc Tag (Cat. No. SIG-H5253) with a linear range of 20-312 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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