



**Synonym**

IgG1

**Source**

Human IgG1 Fc (C103S, N180A) Protein, His Tag (IG1-H52H7) is expressed from human 293 cells (HEK293). It contains AA Pro 100 - Lys 330 (Accession # [P01857-1](#) (C103S, N180A)).

Predicted N-terminus: Pro 100

**Molecular Characterization**



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 27.8 kDa. The protein migrates as 30-33 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

**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**

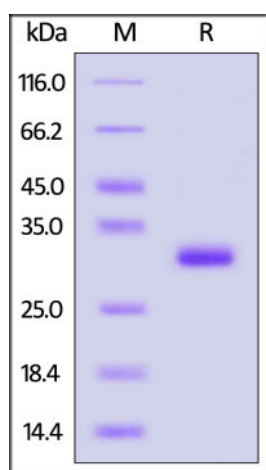
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

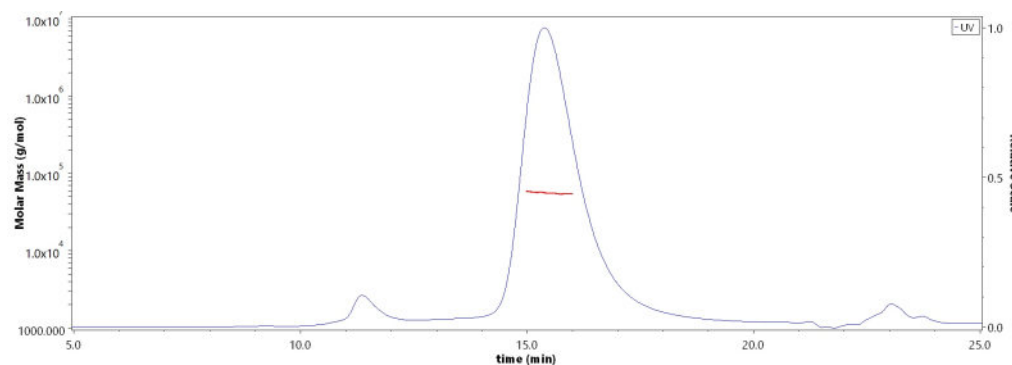
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**



Human IgG1 Fc (C103S, N180A) Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

**SEC-MALS**



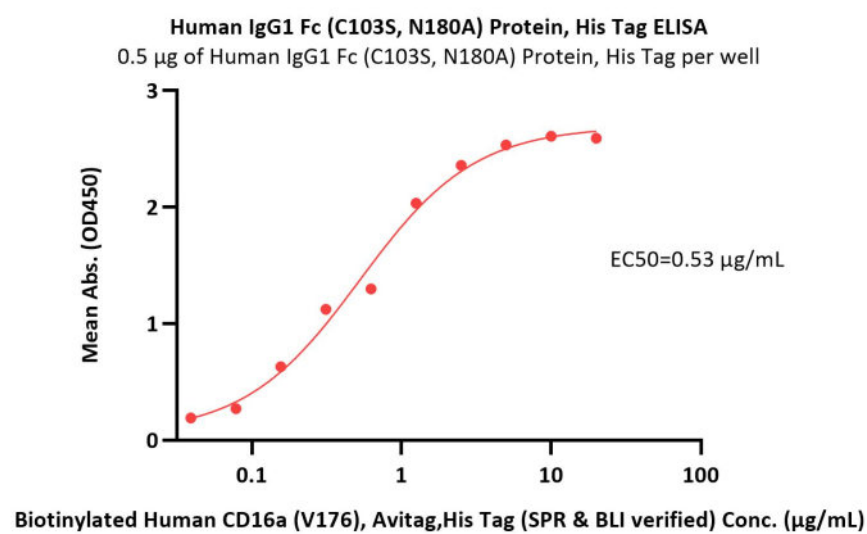
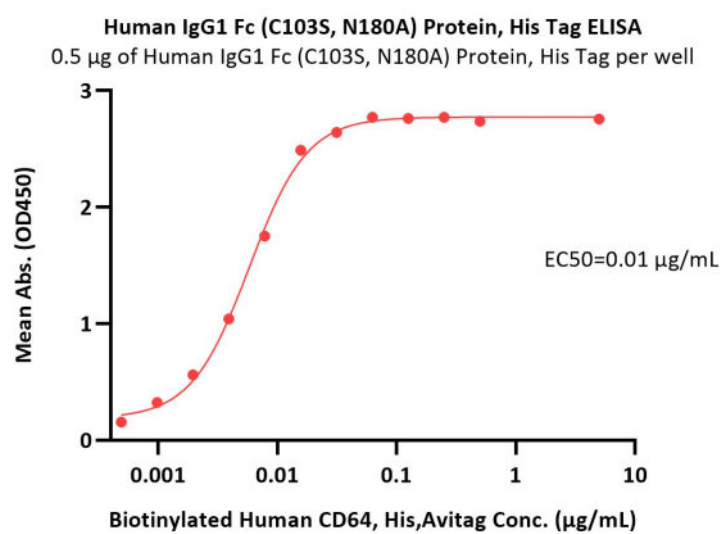
The purity of Human IgG1 Fc (C103S, N180A) Protein, His Tag (Cat. No. IG1-H52H7) is more than 85% and the molecular weight of this protein is around 50-62 kDa verified by SEC-MALS.

[Report](#)

**Bioactivity-ELISA**

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Immobilized Human IgG1 Fc (C103S, N180A) Protein, His Tag (Cat. No. IG1-H52H7) at 5 µg/mL (100 µL/well) can bind Biotinylated Human CD64, His,Avitag (Cat. No. FCA-H82E8) with a linear range of 0.001-0.156 µg/mL (QC tested).

Immobilized Human IgG1 Fc (C103S, N180A) Protein, His Tag (Cat. No. IG1-H52H7) at 5 µg/mL (100 µL/well) can bind Biotinylated Human CD16a (V176), Avitag,His Tag (SPR & BLI verified) (Cat. No. CDA-H82E9) with a linear range of 0.039-1.25 µg/mL (Routinely tested).

## Background

Crystallizable fragments composed of the carboxy-terminal halves of both IMMUNOGLOBULIN HEAVY CHAINS linked to each other by disulfide bonds. Fc fragments contain the carboxy-terminal parts of the heavy chain constant regions that are responsible for the effector functions of an immunoglobulin (COMPLEMENT fixation, binding to the cell membrane via FC RECEPTORS, and placental transport). IgG1 Fc was reported has a novel role as a potential anti-inflammatory drug for treatment of human autoimmune diseases.

## Clinical and Translational Updates

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