

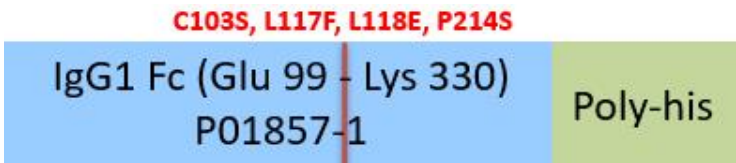
Synonym

IgG1

Source

Human IgG1 Fc (C103S, L117F, L118E, P214S), His Tag(IG1-H52H9) is expressed from human 293 cells (HEK293). It contains AA Glu 99 - Lys 330 (Accession # [P01857-1](#) (C103S, L117F, L118E, P214S)).
Predicted N-terminus: Glu 99

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 28 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 / rFC 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

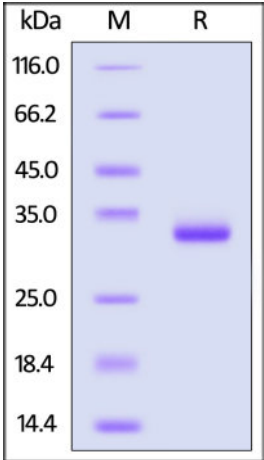
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

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:

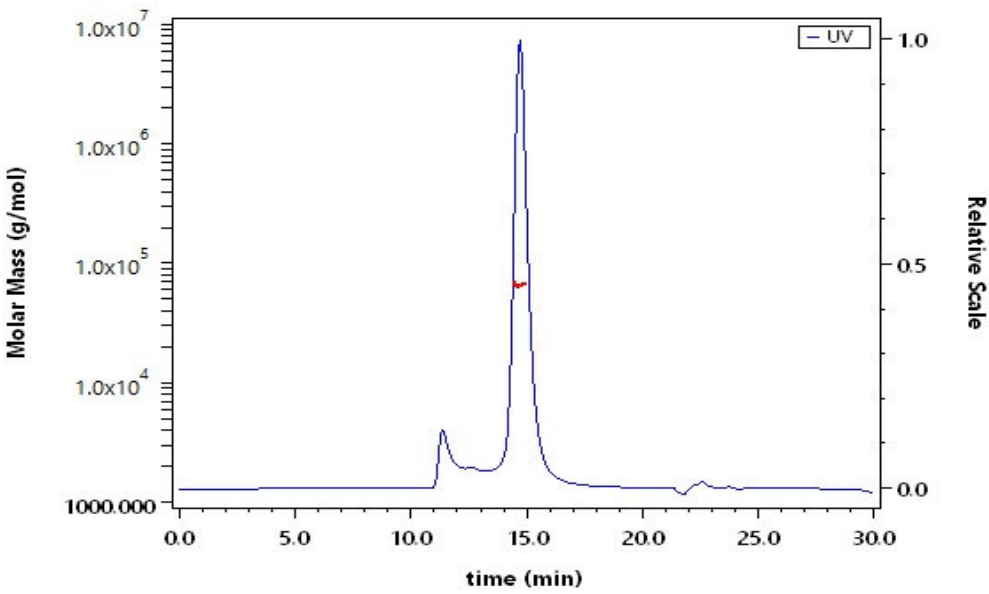
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human IgG1 Fc (C103S, L117F, L118E, P214S), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

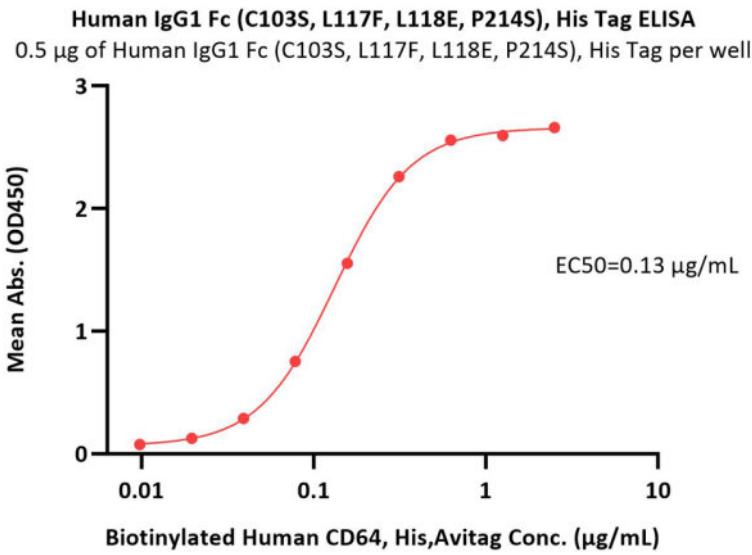
SEC-MALS



The purity of Human IgG1 Fc (C103S, L117F, L118E, P214S), His Tag (Cat. No. IG1-H52H9) is more than 90% and the molecular weight of this protein is around 55-70 kDa verified by SEC-MALS.
[Report](#)

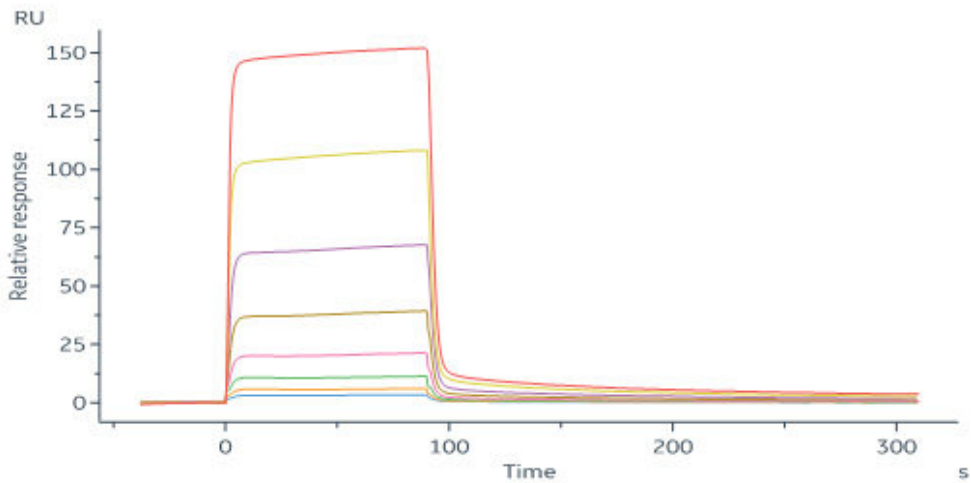
Bioactivity-ELISA





Immobilized Human IgG1 Fc (C103S, L117F, L118E, P214S), His Tag (Cat. No. IG1-H52H9) at 5 µg/mL (100 µL/well) can bind Biotinylated Human CD64, His,Avitag (Cat. No. FCA-H82E8) with a linear range of 0.01-0.625 µg/mL (QC tested).

Bioactivity-SPR



Human IgG1 Fc (C103S, L117F, L118E, P214S), His Tag (Cat. No. IG1-H52H9) immobilized on CM4 Chip can bind Human FCGRT&B2M Heterodimer Protein, His Tag (Cat. No. FCN-H52W7) with an affinity constant of 1.42 µM as determined in a SPR assay (Biacore 8K) (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.

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