

Synonym

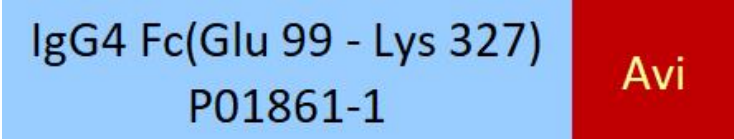
IGHG4

Source

Biotinylated Human IgG4 Fc Protein, Avitag(IG4-H8213) is expressed from human 293 cells (HEK293). It contains AA Glu 99 - Lys 327 (Accession # [P01861-1](#)).

Predicted N-terminus: Glu 99

Molecular Characterization



This protein carries an Avi tag (Avitag™) at the C-terminus.

The protein has a calculated MW of 28.0 kDa. The protein migrates as 35-38 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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.

>95% 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

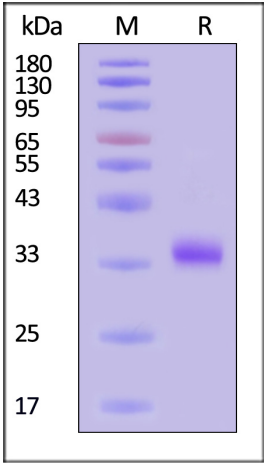
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

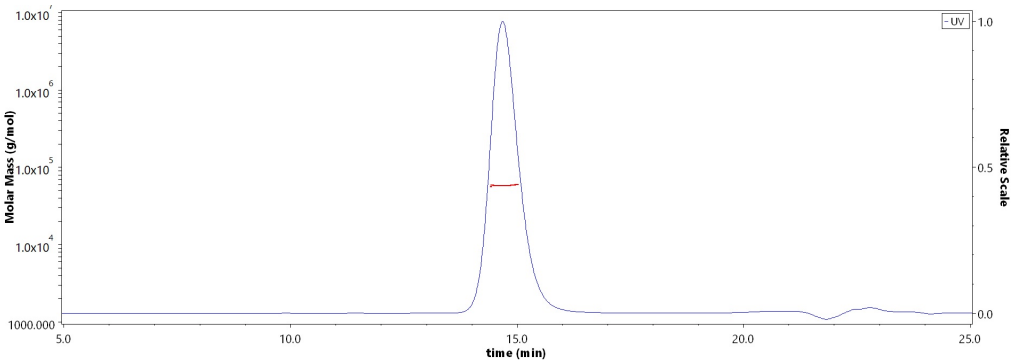
SDS-PAGE



Biotinylated Human IgG4 Fc Protein, Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

SEC-MALS



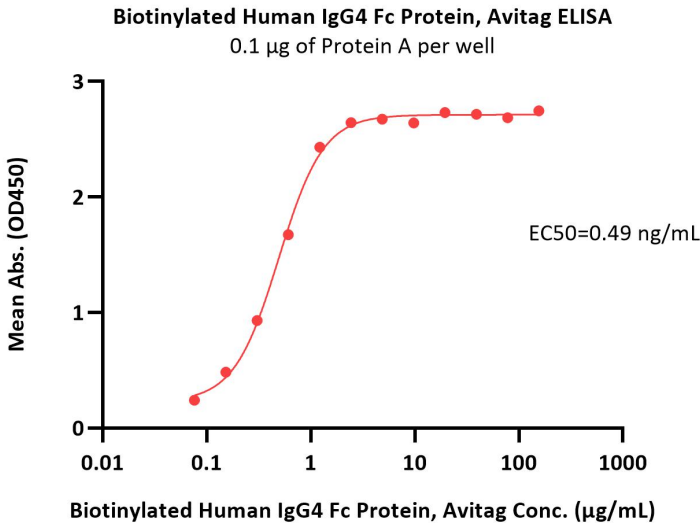
The purity of Biotinylated Human IgG4 Fc Protein, Avitag (Cat. No. IG4-H8213) is more than 95% and the molecular weight of this protein is around 55-70 kDa verified by SEC-MALS.

[Report](#)

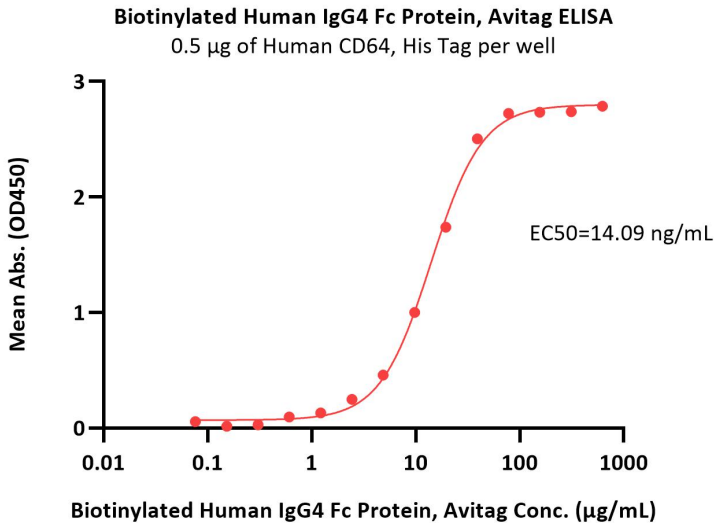


Biotinylated Human IgG4 Fc Protein, Avitag™ (MALS verified)

Catalog # IG4-H8213



Immobilized Protein A at 1 µg/mL (100 µL/well) can bind Biotinylated Human IgG4 Fc Protein, Avitag (Cat. No. IG4-H8213) with a linear range of 0.08-1 ng/mL (QC tested).



Immobilized Human CD64, His Tag (Cat. No. FCA-H52H1) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IgG4 Fc Protein, Avitag (Cat. No. IG4-H8213) with a linear range of 0.08-39 ng/mL (Routinely tested).

Background

Immunoglobulin G4 (IgG4) is a member of many immunoglobulin G developed and secreted by effective B cells. In wake of cutting by pepsin, IgG is divided into two F(ab)s with one antigen binding site and a high conserved Fc segment. The Fc segment bears a highly conserved N-glycosylation site. Ig gamma-4 chain Fc region contains two constant regions of IgG4 H chain (CH2, CH3).

