

Biotinylated Human IgG3 Fc Protein, Avitag™ (MALS verified)

Catalog # IG3-H8213



Synonym

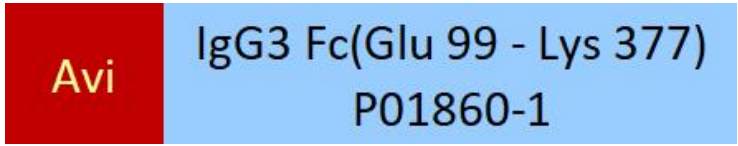
Ig gamma-3 chain C region, IgG, IgG3

Source

Biotinylated Human IgG3 Fc Protein, Avitag (IG3-H8213) is expressed from human 293 cells (HEK293). It contains AA Glu 99 - Lys 377 (Accession # [P01860-1](#)).

Predicted N-terminus: Gly

Molecular Characterization



[Other Tags and Version Biotin & Other Labeled Version](#)

This protein carries an Avi tag (Avitag™) at the N-terminus.
The protein has a calculated MW of 33.4 kDa. The protein migrates as 38-43 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:

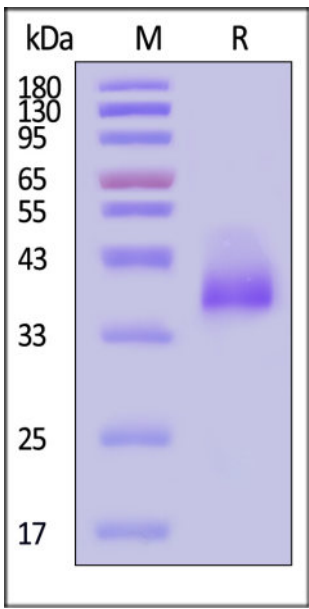
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

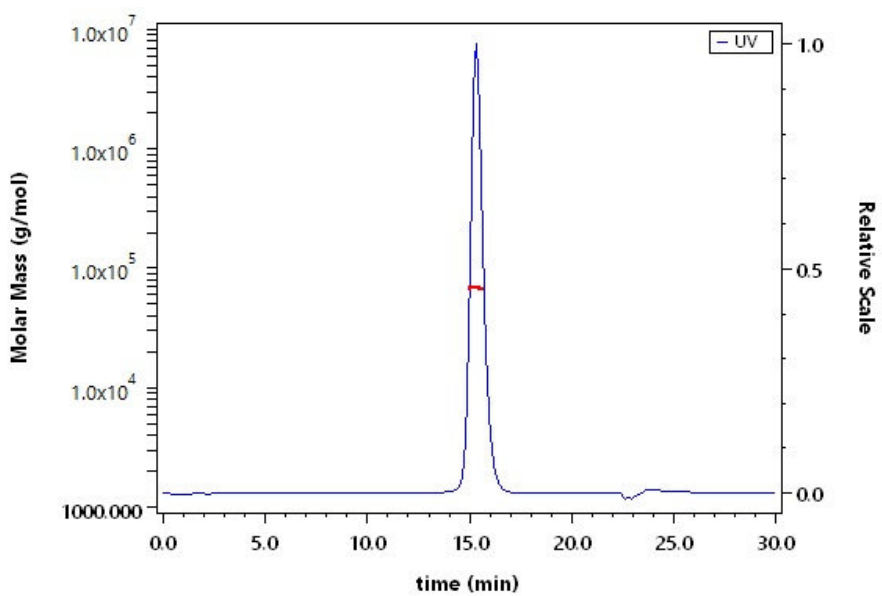
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE

SEC-MALS

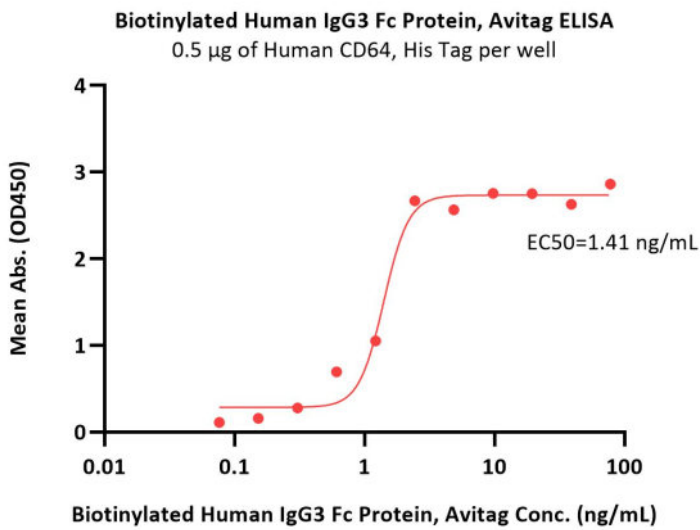


Biotinylated Human IgG3 Fc Protein, Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).



The purity of Biotinylated Human IgG3 Fc Protein, Avitag (Cat. No. IG3-H8213) is more than 95% and the molecular weight of this protein is around 65-80 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human CD64, His Tag (Cat. No. FCA-H52H1) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IgG3 Fc Protein, Avitag (Cat. No. IG3-H8213) with a linear range of 0.08-2 ng/mL (QC tested).

Background

Immunoglobulin G3 (IgG3) 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-3 chain C region (IgG3-Fc / IGHG3) contains two constant regions of IgG3 H chain (CH2, CH3).



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