

Synonym

IgG1

Source

Biotinylated Mouse IgG1 Fc, Avitag(IG1-M8211) is expressed from human 293 cells (HEK293). It contains AA Val 98 - Lys 324 (Accession # [AAK53870.1](#)).
Predicted N-terminus: Val 98

Molecular Characterization

IgG1 Fc(Val 98 - Lys 324)
AAK53870.1

Avi

This protein carries an Avi tag (Avitag™) at the C-terminus.
The protein has a calculated MW of 27.4 kDa. The protein migrates as 33 kDa 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

>90% 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

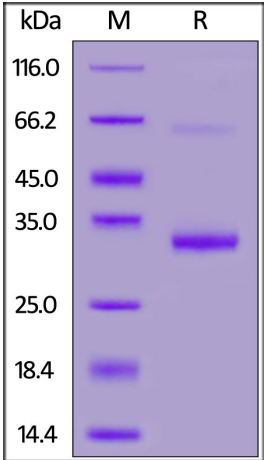
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

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:

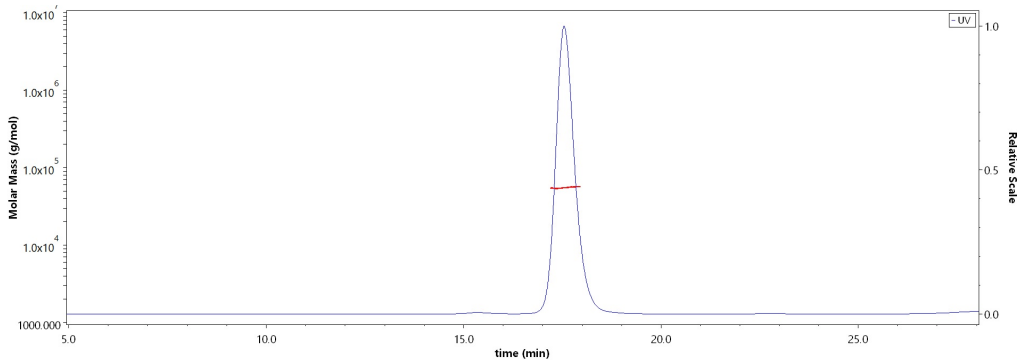
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Mouse IgG1 Fc, Avitag 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 Biotinylated Mouse IgG1 Fc, Avitag (Cat. No. IG1-M8211) is more than 95% and the molecular weight of this protein is around 48-60 kDa verified by SEC-MALS.
[Report](#)

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

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Biotinylated Mouse IgG1 Fc protein, Avitag™ (MALS verified)

Catalog # IG1-M8211



(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.

