Mouse IgG1 Fc Protein, Tag Free (MALS verified)

Catalog # IG1-M5208

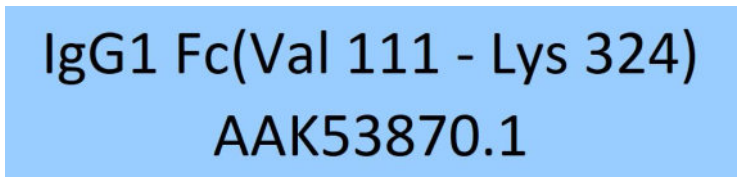
Synonym

IgG1

Source

Mouse IgG Fc, Tag Free (IG1-M5208) is expressed from human 293 cells (HEK293). It contains AA Val 111 - Lys 324 (Accession # AAK53870.1). Predicted N-terminus: Val 111

Molecular Characterization



This protein carries no "tag".

The protein has a calculated MW of 24.3 kDa. The protein migrates as 28-30 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in 51 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

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

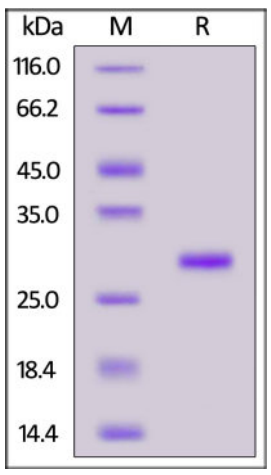
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

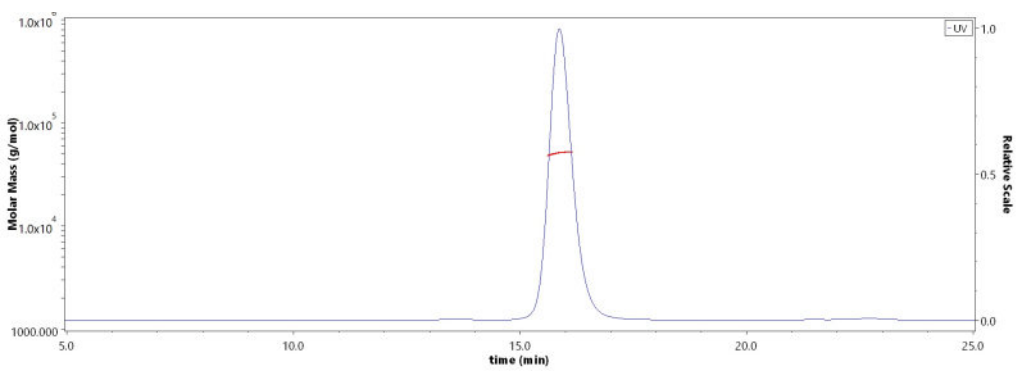
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



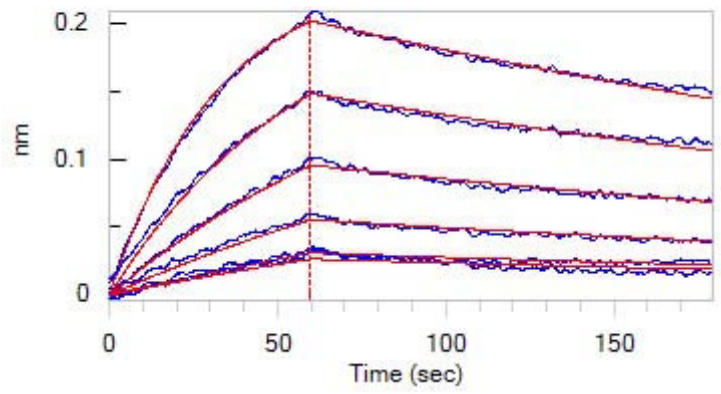
Mouse IgG Fc, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Mouse IgG Fc, Tag Free (Cat. No. IG1-M5208) is more than 95% and the molecular weight of this protein is around 45-65 kDa verified by SEC-MALS.
Report

Bioactivity-BLI



Loaded Mouse FCGRT&B2M Heterodimer Protein, His Tag (Cat. No. FCM-M52W8) on NTA Biosensor, can bind Mouse IgG Fc, Tag Free (Cat. No. IG1-M5208) with an affinity constant of 17.9 nM as determined in BLI assay (ForteBio Octet Red96e) (QC 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

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.