

# Human IgG1 Fc (C103S) Protein, Flag Tag (MALS verified)

Catalog # IG1-H52C9



## Synonyms

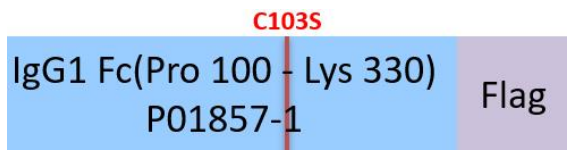
IgG1

## Source

Human IgG1 Fc (C103S), Flag Tag (IG1-H52C9) is expressed from human 293 cells (HEK293). It contains AA Pro 100 - Lys 330 (Accession # [P01857-1](#) (C103S)).

Predicted N-terminus: Pro 100

## Molecular Characterization



This protein carries a flag tag at the C-terminus.

The protein has a calculated MW of 27.1 kDa. The protein migrates as 28-33 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 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.

## Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

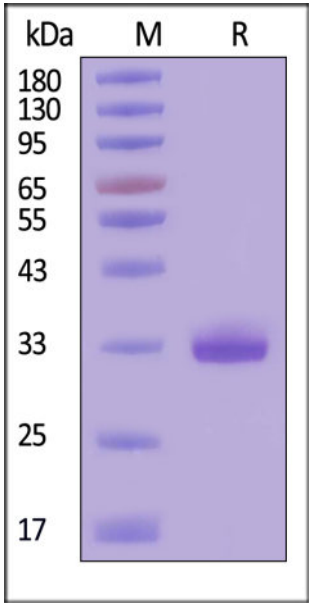
This product is stable after storage at:

- -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

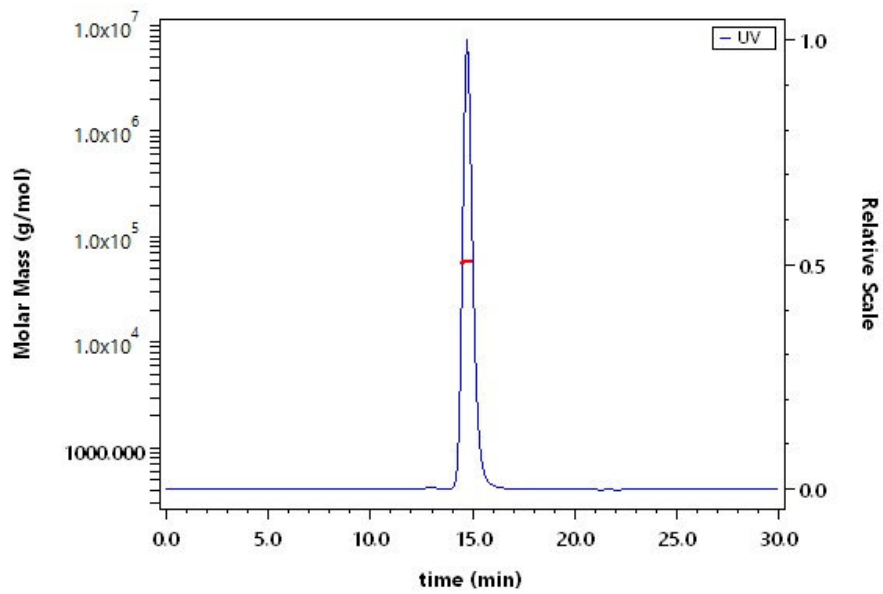
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



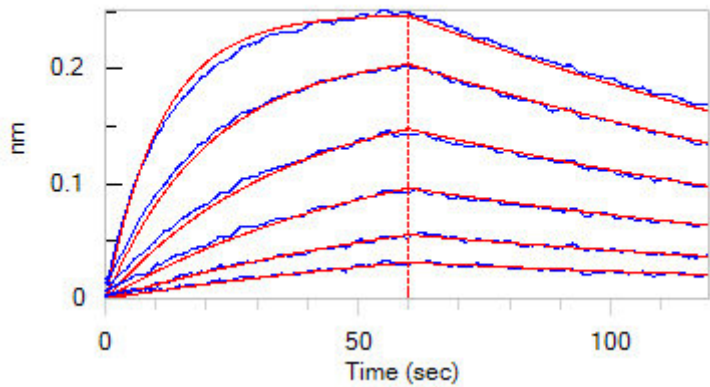
Human IgG1 Fc (C103S), Flag Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human IgG1 Fc (C103S), Flag Tag (Cat. No. IG1-H52C9) is more than 95% and the molecular weight of this protein is around 51-63 kDa verified by SEC-MALS.

Bioactivity-BLI



Loaded Human CD64, His Tag (Cat. No. FCA-H52H2) on HIS1K Biosensor, can bind Human IgG1 Fc (C103S), Flag Tag (Cat. No. IG1-H52C9) with an affinity constant of 21.2 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.



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