

# Human IgG3 Fc Protein, Tag Free (MALS & SPR verified)

Catalog # IG3-H5200



BIOSYSTEMS  
**Acro**

## Synonym

Ig gamma-3 chain C region, IgG, IgG3

## Source

Human IgG3 Fc, Tag Free (IG3-H5200) is expressed from human 293 cells (HEK293). It contains AA Glu 99 - Lys 377 (Accession # [P01860](#)).

Predicted N-terminus: Glu 99

## Molecular Characterization

IgG3 Fc(Glu 99 - Lys 377)  
P01860

This protein carries no "tag".

The protein has a calculated MW of 31.2 kDa. The protein migrates as 35-42 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

## Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

## Purity

>90% 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.**

## Storage

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

**Please avoid repeated freeze-thaw cycles.**

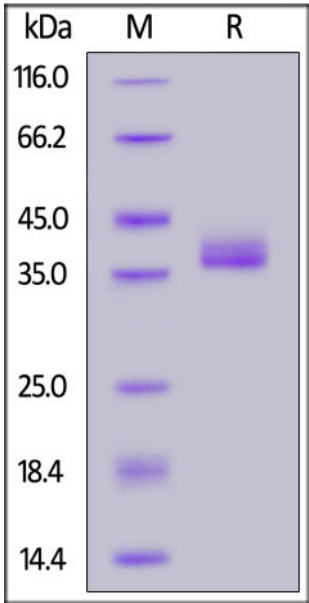
This product is stable after storage at:

- -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

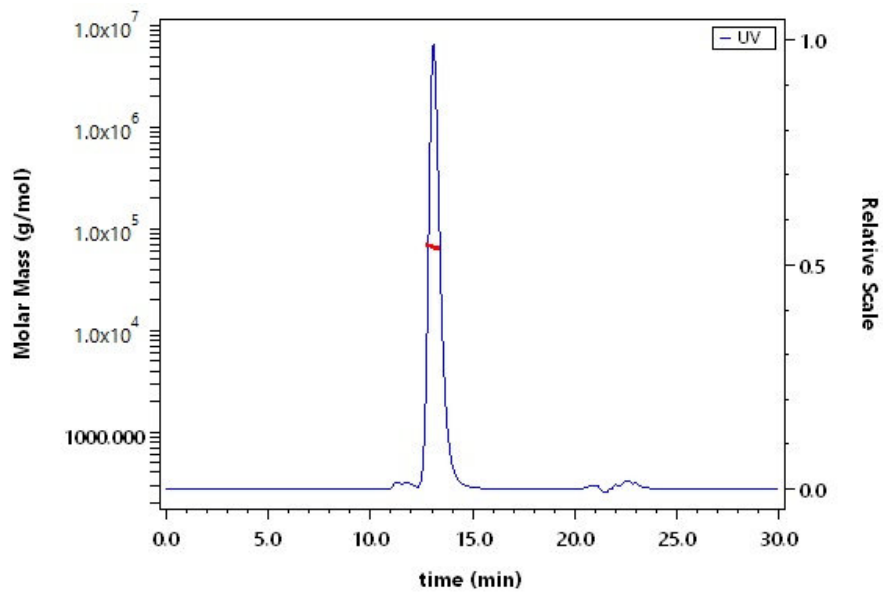
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



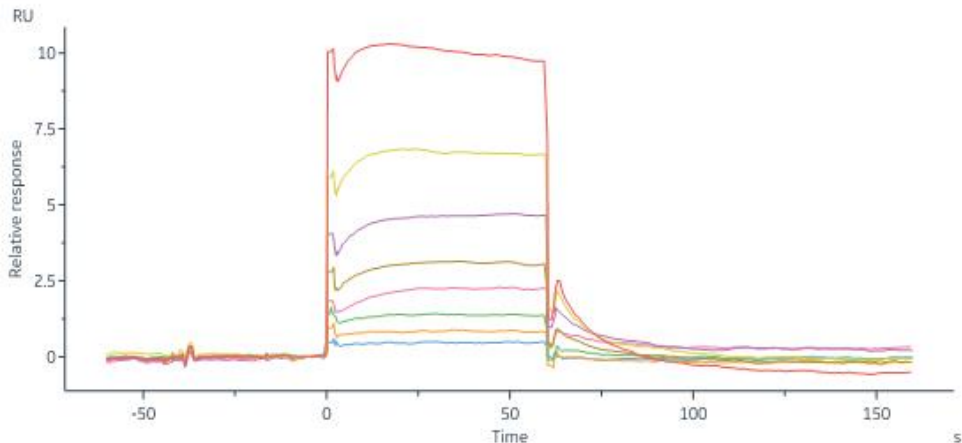
Human IgG3 Fc, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



The purity of Human IgG3 Fc, Tag Free (Cat. No. IG3-H5200) is more than 95% and the molecular weight of this protein is around 58-71 kDa verified by SEC-MALS.

Bioactivity-SPR



Human FCGRT&B2M Heterodimer Protein, His Tag (Cat. No. FCN-H52W7) captured on CM5 Chip via anti-His antibody can bind Human IgG3 Fc, Tag Free (Cat. No. IG3-H5200) with an affinity constant of 2.82  $\mu$ M as determined in SPR assay (Biacore 8K) (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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