

Human IgG4 Fc Protein, Tag Free (MALS & SPR verified)

Catalog # IG4-H5205



BIOSYSTEMS
Acro

Synonym

IGHG4

Source

Human IgG4 Fc, Tag Free (IG4-H5205) is expressed from human 293 cells (HEK293). It contains AA Glu 99 - Lys 327 (Accession # [P01861](#)).

Predicted N-terminus: Glu 99

Molecular Characterization

IgG4 Fc(Glu 99 - Lys 327)
P01861

This protein carries no "tag".

The protein has a calculated MW of 25.8 kDa. The protein migrates as 30-33 kDa under reducing (R) condition, and 29 kDa and 55-60 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

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.

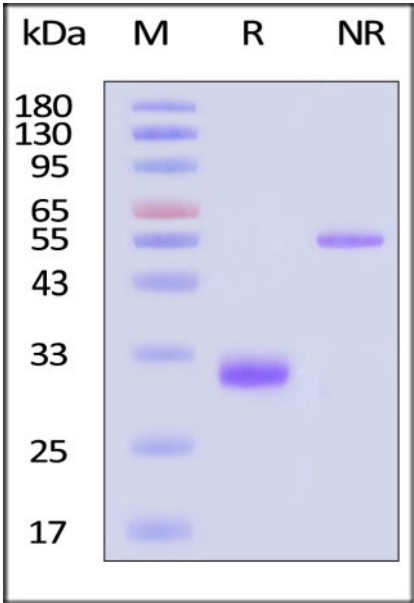
This product is stable after storage at:

- -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

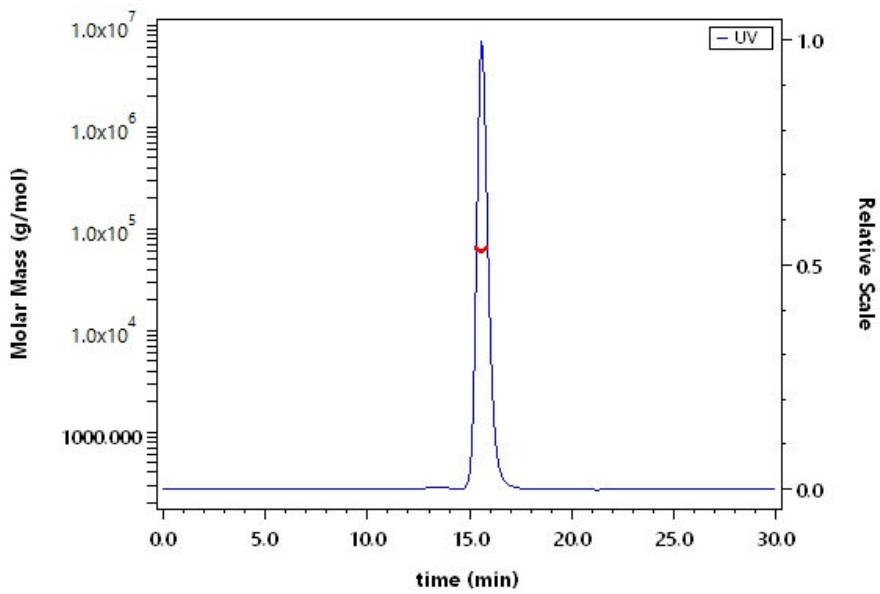
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



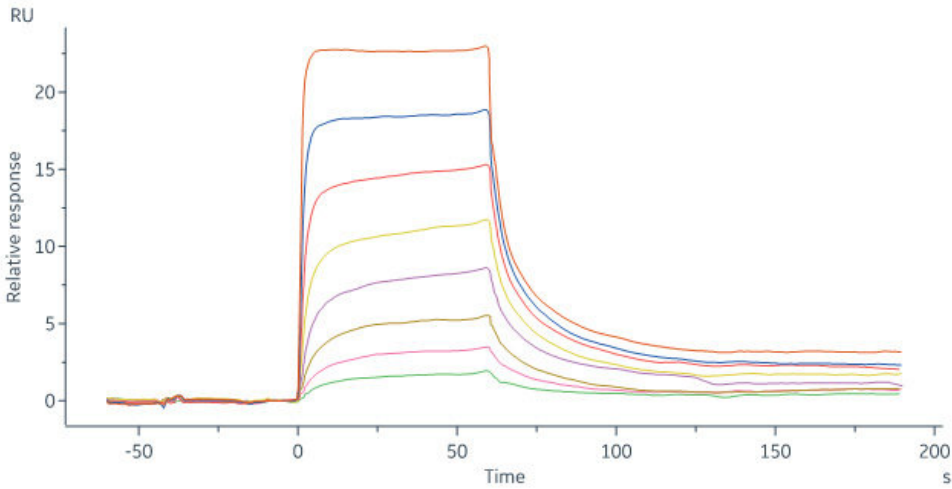
Human IgG4 Fc, Tag Free on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human IgG4 Fc, Tag Free (Cat. No. IG4-H5205) is more than 95% and the molecular weight of this protein is around 54-66 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 IgG4 Fc, Tag Free (Cat. No. IG4-H5205) with an affinity constant of 0.715 μ M as determined in SPR assay (Biacore 8K) (QC tested).

Background

Immunoglobulin G4 (IgG4) 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-4 chain Fc region contains two constant regions of IgG4 H chain (CH2, CH3).

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