

# Mouse IgG3 Fc Protein, Tag Free (MALS verified)

Catalog # IG3-M5214



BIOSYSTEMS  
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## Synonym

Ig gamma-3 chain C region,IgG,IgG3

## Source

Mouse IgG3 Fc Protein, Tag Free(IG3-M5214) is expressed from human 293 cells (HEK293). It contains AA Pro 98 - Pro 327 (Accession # [P03987-2](#)).

## Molecular Characterization

**IgG3 Fc(Pro 98 - Pro 327)**  
**P03987-2**

This protein carries no "tag".

The protein has a calculated MW of 26.1 kDa. The protein migrates as 30-33 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.

## Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM 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

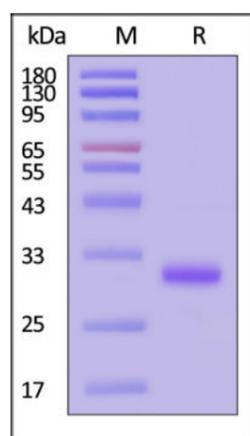
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

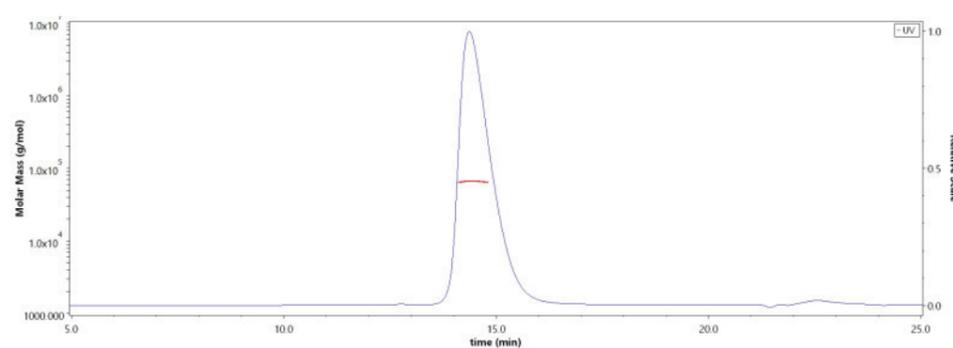
## SDS-PAGE



Mouse IgG3 Fc Protein, 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

## SEC-MALS



The purity of Mouse IgG3 Fc Protein, Tag Free (Cat. No. IG3-M5214) is more than 90% and the molecular weight of this protein is around 60-70 kDa verified by SEC-MALS.

[Report](#)

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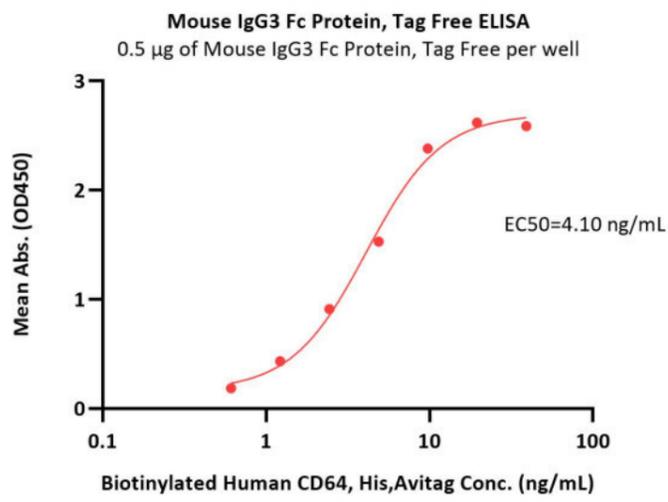
9/14/2024

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Immobilized Mouse IgG3 Fc Protein, Tag Free (Cat. No. IG3-M5214) at 5 µg/mL (100 µL/well) can bind Biotinylated Human CD64, His,Avitag (Cat. No. FCA-H82E8) with a linear range of 0.6-10 ng/mL (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).

## Clinical and Translational Updates

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