

**Synonym**

IgG2A

**Source**

Mouse IgG2a Fc, Tag Free(IGA-M5207) is expressed from human 293 cells (HEK293). It contains AA Glu 98 - Lys 330 (Accession # [CAC20702](#) ).

Predicted N-terminus: Glu 98

**Molecular Characterization**

## IgG2a Fc(Glu 98 - Lys 330) CAC20702

This protein carries no "tag".

The protein has a calculated MW of 26.4 kDa. The protein migrates as 30-35 kDa under reducing (R) condition, and 55-60 kDa under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 100 mM Glycine, 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.*

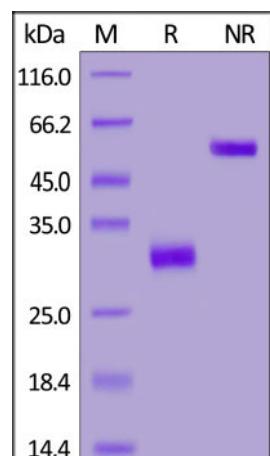
**Storage**

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

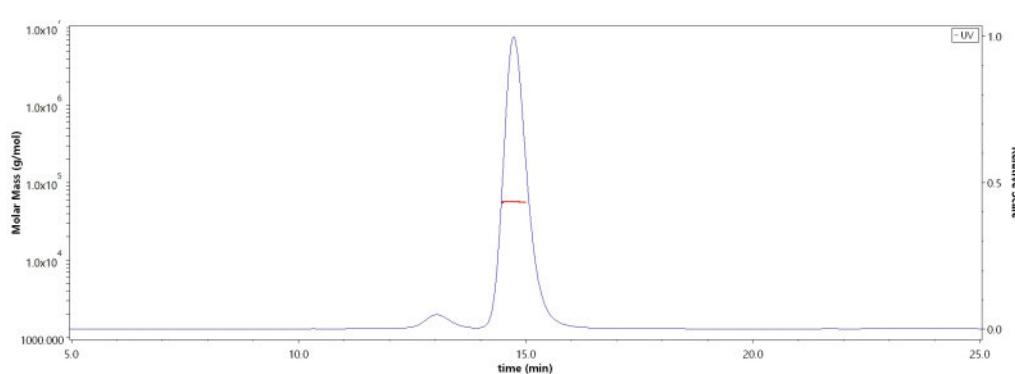
*Please avoid repeated freeze-thaw cycles.*

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 IgG2a 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%.

**SEC-MALS**

The purity of Mouse IgG2a Fc, Tag Free (Cat. No. IGA-M5207) is more than 90% and the molecular weight of this protein is around 48-64 kDa verified by SEC-MALS.

[Report](#)

**Bioactivity-BLI**

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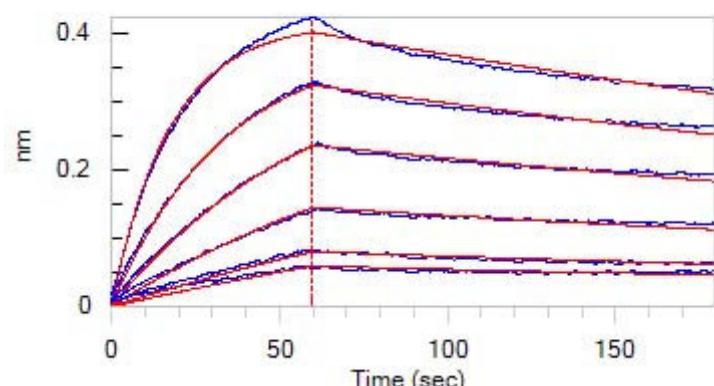
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# Mouse IgG2a Fc Protein, Tag Free (MALS verified)

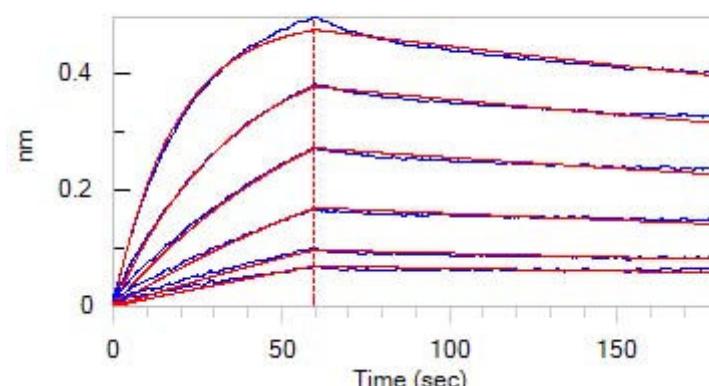
Catalog # IGA-M5207



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Surprise Inside!



Loaded Mouse FCGRT&B2M Heterodimer Protein, His Tag&Twin-Strep Tag (BLI verified) (Cat. No. FCM-M52W2) on NTA Biosensor, can bind Mouse IgG2a Fc, Tag Free(Cat. No. IGA-M5207) with an affinity constant of 7.73 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Mouse FCGRT&B2M Heterodimer Protein, His Tag (BLI verified) (Cat. No. FCM-M52W8) on NTA Biosensor, can bind Mouse IgG2a Fc, Tag Free(Cat. No. IGA-M5207) with an affinity constant of 5.75 nM (Routinely tested) BLI assay (ForteBio Octet Red96e) (Routinely tested).

## Background

Immunoglobulin G2 (IgG2) 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. There are two members of IgG2: IgG2a and IgG2b. It was found that IgG2a was superior to IgG1 in activating complement. The glycosylation of the circulating immunoglobulin- $\gamma$  (IgG) antibody molecules changes in rheumatoid arthritis.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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