



## 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 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, 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

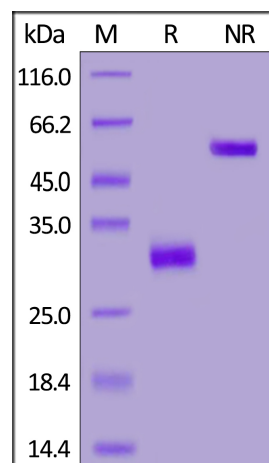
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

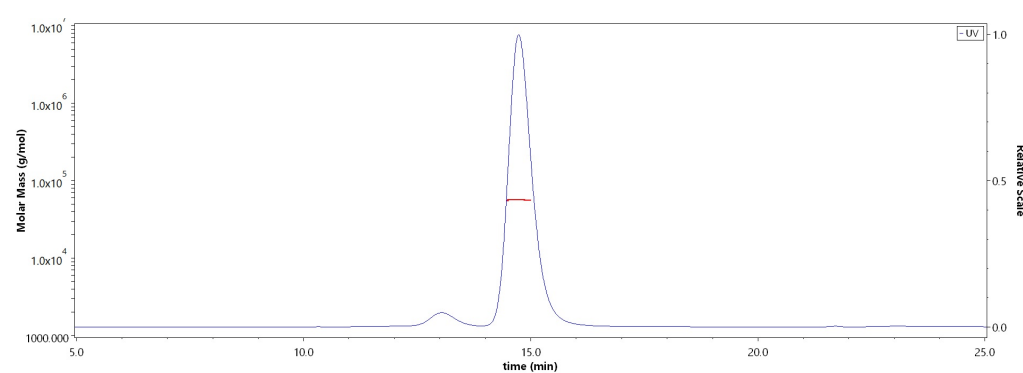
## SDS-PAGE



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%.

## Bioactivity-BLI

## SEC-MALS

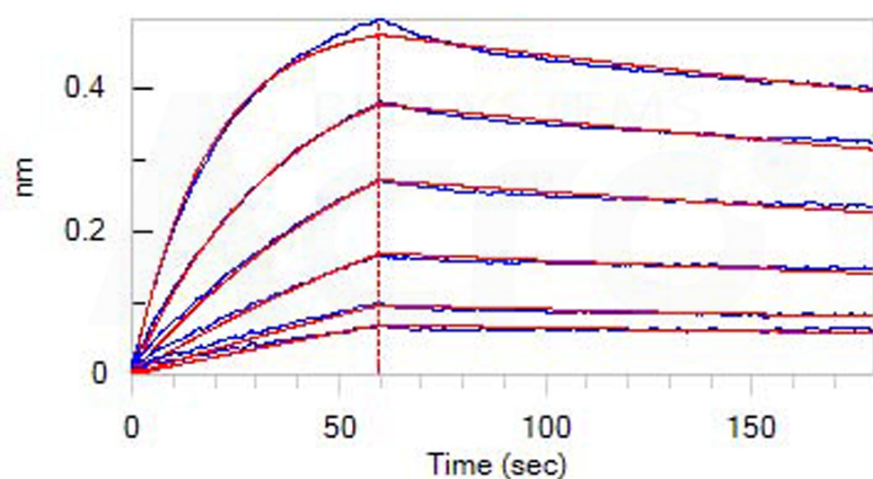


The purity of Mouse IgG2a Fc, Tag Free (Cat. No. IGA-M5207) is more than 90% and the molecular weight of this protein is around 48-64 kDa verified by SEC-MALS.

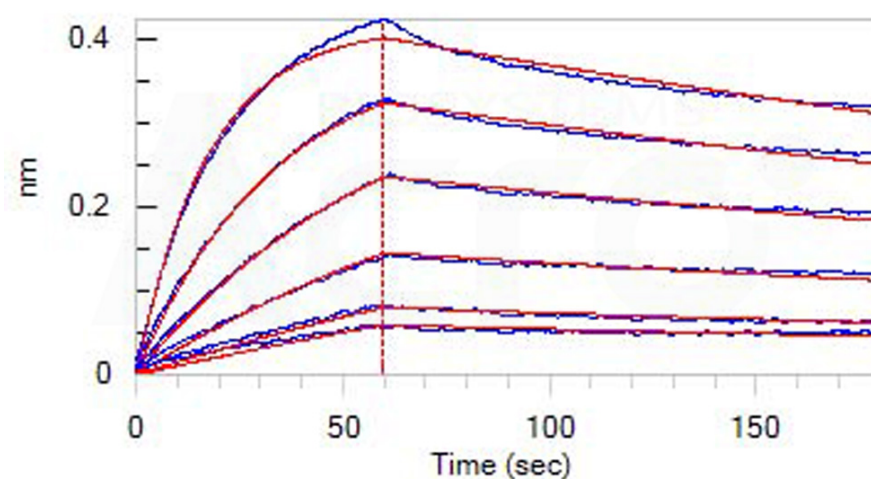
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Loaded Mouse FCGRT&B2M Heterodimer Protein, His Tag (BLI verified) (Cat. No. FCM-M52W8) on NTA Biosensor, can bind Mouse IgG2a Fc, Tag Free (Cat. No. IGA-M5207) with an affinity constant of 5.75 nM as determined in BLI assay (ForteBio Octet Red96e)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



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) (QC 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

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