

**Synonym**

IgE

**Source**

Cynomolgus IgE Fc Protein, His Tag(IGE-C52H3) is expressed from human 293 cells (HEK293). It contains AA Pro 111 - Lys 429 (Accession # [G8F4W7](#)).

Predicted N-terminus: Pro 111

**Molecular Characterization**

IgE Fc(Pro 111 - Lys 429)  
G8F4W7 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 37.3 kDa. The protein migrates as 45-55 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.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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.*

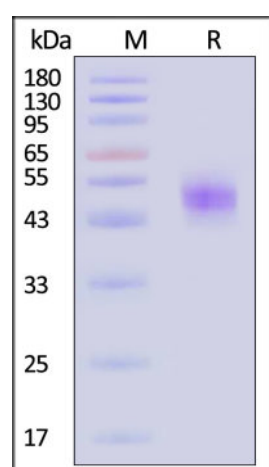
**Storage**

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

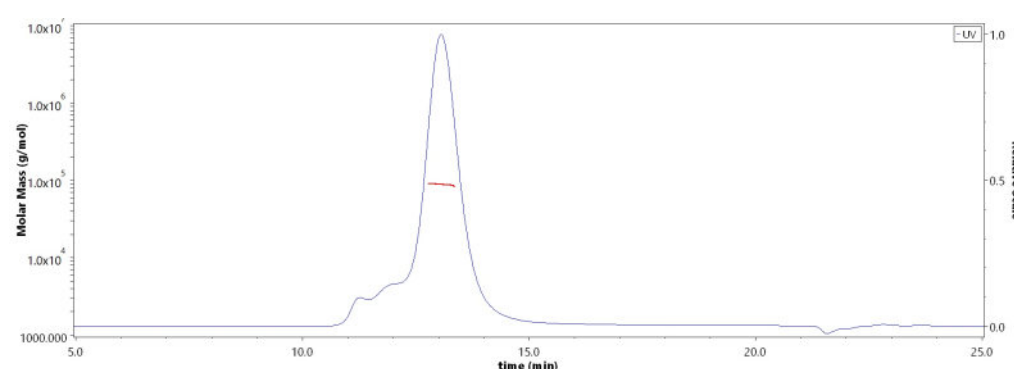
*Please avoid repeated freeze-thaw cycles.*

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.

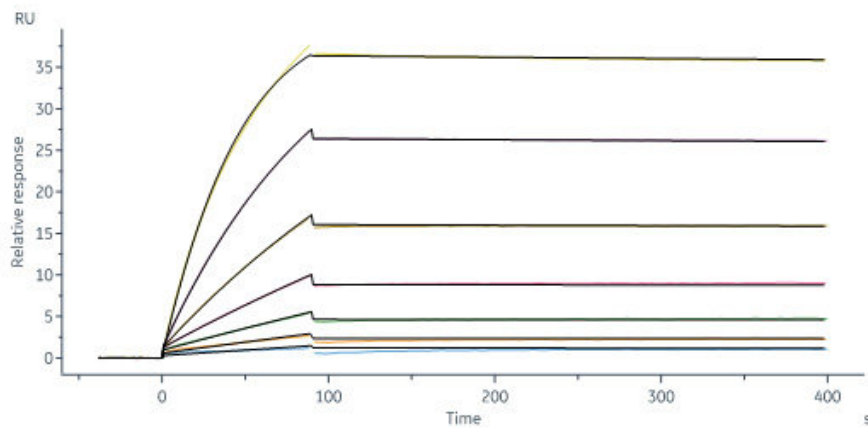
**SDS-PAGE**

Cynomolgus IgE Fc Protein, His Tag 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-SPR****SEC-MALS**

The purity of Cynomolgus IgE Fc Protein, His Tag (Cat. No. IGE-C52H3) is more than 85% and the molecular weight of this protein is around 80-100 kDa verified by SEC-MALS.

[Report](#)



Cynomolgus Fc epsilon RI alpha, His Tag (Cat. No. FCA-C52H9) immobilized on CM5 Chip can bind Cynomolgus IgE Fc Protein, His Tag (Cat. No. IGE-C52H3) with an affinity constant of 0.104 nM as determined in a SPR assay (Biacore 8K) (QC tested).

### Background

As one of the five designated immunoglobulin isotypes, immunoglobulin E (IgE) plays a major role in atopic conditions by inducing immediate hypersensitivity reactions. IgE also contributes significantly to the body's immune response to parasitic infections. IgE antibodies are predominantly found in the tissues, firmly attached to effector cells, such as mast cells and basophils, by high-affinity IgE Fc receptor (Fc epsilon RI) and low-affinity IgE receptor (Fc epsilon RII).

### Clinical and Translational Updates

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