



## Synonym

IgE

## Source

Human IgE Fc, His Tag(IGE-H52H9) is expressed from human 293 cells (HEK293). It contains AA Ser 106 - Gly 427 (Accession # [P01854-1](#)).

Predicted N-terminus: Ser 106

## Molecular Characterization

IgE Fc(Ser 106 - Gly 427)  
P01854-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 37.6 kDa. The protein migrates as 45-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

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

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu\text{m}$  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

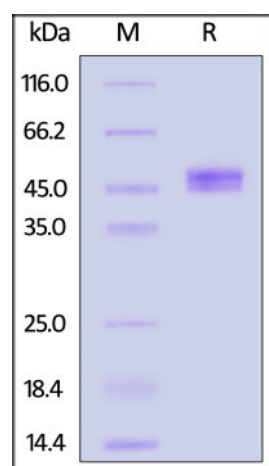
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human IgE Fc, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-SPR

Discounts, Gifts,  
and more!

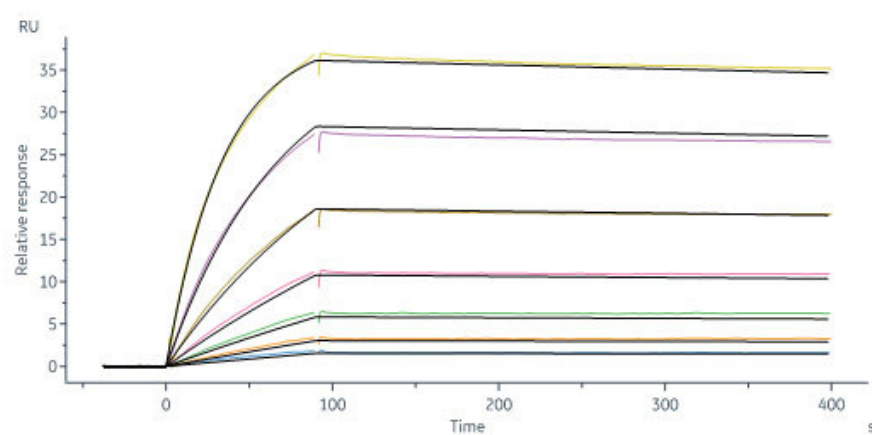


## Human IgE Fc Protein, His Tag (SPR verified)

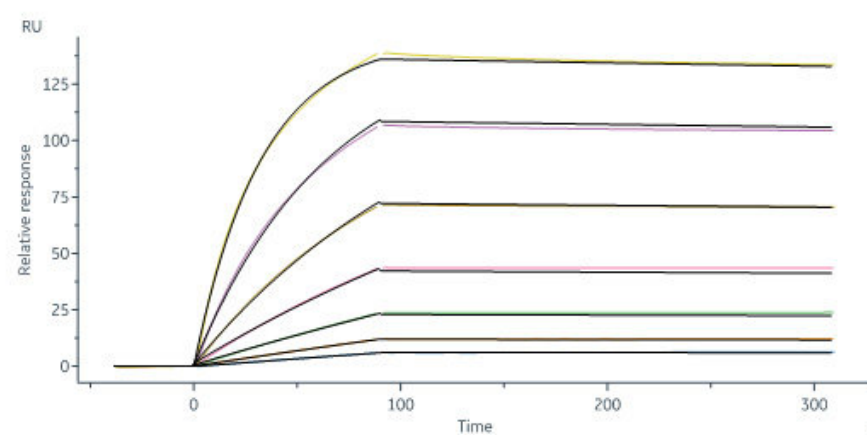
Catalog # IGE-H52H9



BIOSYSTEMS  
**Acro**



Human Fc epsilon RI alpha, Fc Tag (Cat. No. FCA-H5259) immobilized on CM5 Chip can bind Human IgE Fc, His Tag (Cat. No. IGE-H52H9) with an affinity constant of 0.585 nM as determined in a SPR assay (Biacore 8K) (QC tested).



Cynomolgus Fc epsilon RI alpha, His Tag (Cat. No. FCA-C52H9) immobilized on CM5 Chip can bind Human IgE Fc, His Tag (Cat. No. IGE-H52H9) with an affinity constant of 0.226 nM as determined in a SPR assay (Biacore 8K) (Routinely 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

Discounts, Gifts,  
and more!



[www.acrobiosystems.com](http://www.acrobiosystems.com)