Human IgE Fc Protein, His Tag

Catalog # IGE-H52H9

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

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 μg by the LAL method.

Purity

>95% 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

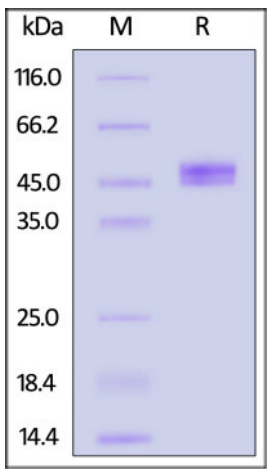
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

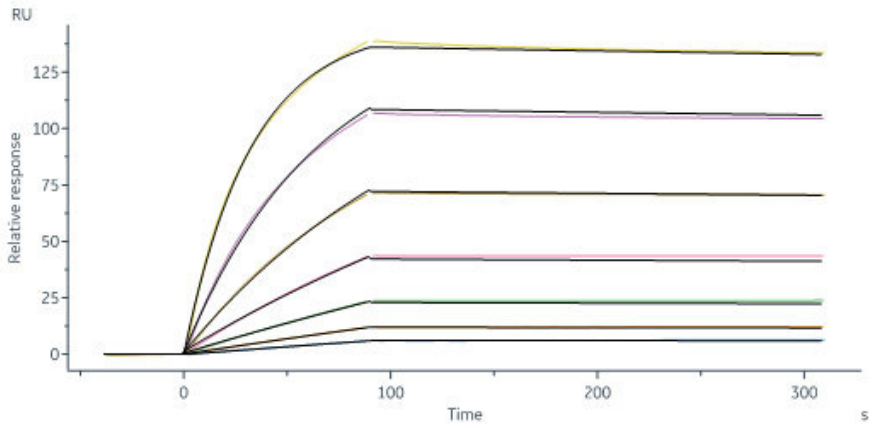
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

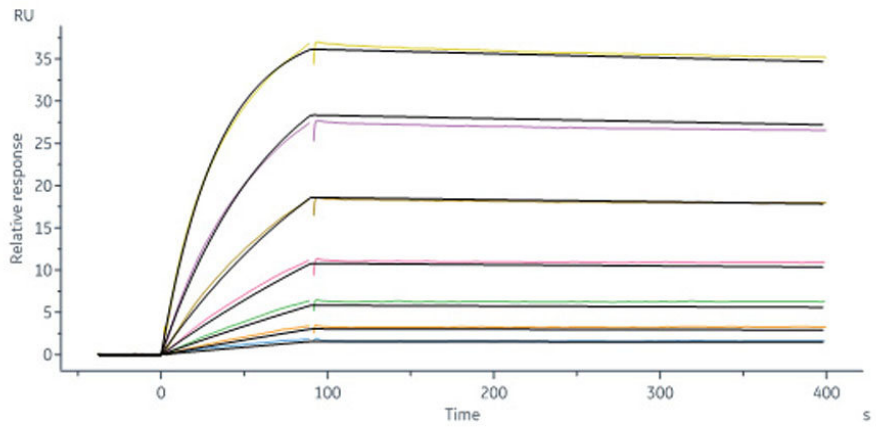


Human IgE Fc, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-SPR



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).



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) (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

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.