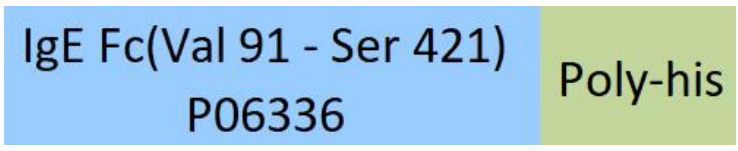
Synonym

IgE

Source

Mouse IgE Fc Protein, His Tag(IGE-M52H3) is expressed from human 293 cells (HEK293). It contains AA Val 91 - Ser 421 (Accession # P06336).
Predicted N-terminus: Val 91

Molecular Characterization



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

The protein has a calculated MW of 39.3 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.

>90% as determined by SEC-MALS.

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

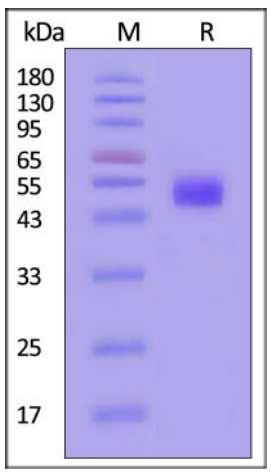
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

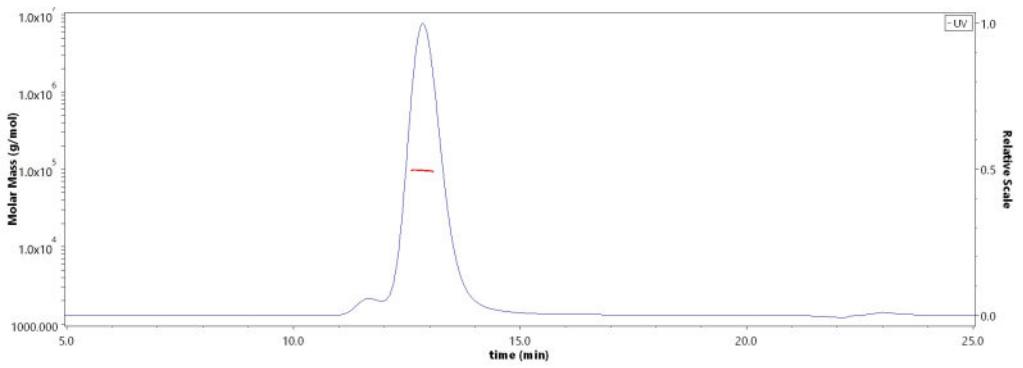
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



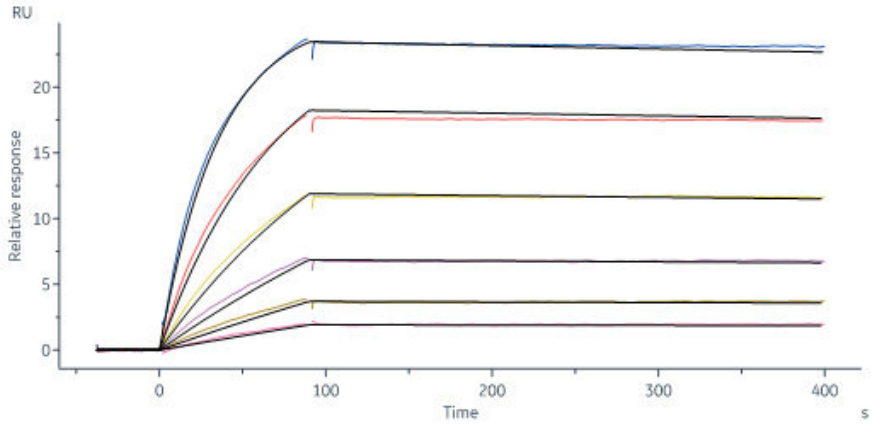
Mouse IgE Fc Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Mouse IgE Fc Protein, His Tag (Cat. No. IGE-M52H3) is more than 90% and the molecular weight of this protein is around 85-105 kDa verified by SEC-MALS.
Report

Bioactivity-SPR



Human Fc epsilon RI alpha, His Tag (Cat. No. FCA-H5228) immobilized on CM5 Chip can bind Mouse IgE Fc Protein, His Tag (Cat. No. IGE-M52H3) with an affinity constant of 0.391 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 if you have any question on this product.