Recombinant Cynomolgus IgE Protein

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Catalog No.: RP02689 Recombinant

Sequence Information

Species Gene ID Swiss Prot Cynomolgus G8F4W7

Tags C-His&Avi

Synonyms

Ig epsilon chain C region□IgE

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

27.9 kDa 35-40 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Immunoglobulin E (IgE) is well known for its role in allergic disease, the manifestations of which are mediated through its two Fc receptors, Fc ϵ RI and CD23 (Fc ϵ RII). IgE and its interactions with these receptors are therefore potential targets for therapeutic intervention, and exciting progress has been made in this direction. Furthermore, recent structural studies of IgE-Fc, the two receptors, and of their complexes, have revealed a remarkable degree of plasticity at the IgE-CD23 interface and an even more remarkable degree of dynamic flexibility within the IgE molecule.

Basic Information

Description

Recombinant Cynomolgus IgE Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Cys208-Lys429.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

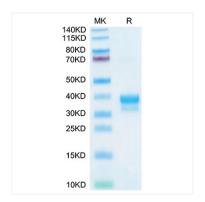
Avoid repeated freeze/thaw cycles.

Operational Notes

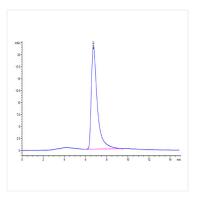
For your safety and health, please wear a lab coat and disposable gloves for handling.

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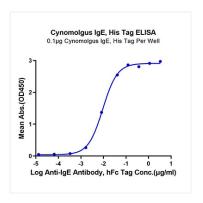
Validation Data



Recombinant Cynomolgus IgE Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Cynomolgus IgE is greater than 95% as determined by SEC-HPLC.



Immobilized Cynomolgus IgE, His Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Anti-IgE Antibody, hFc Tag with the EC $_{50}$ of 9.3ng/ml determined by ELISA.