Recombinant Human IgE Protein

Catalog No.: RPT0015

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Sequence Information

Species
Human

Gene ID
3497

Swiss Prot
P01854

Tags
C-His

Synonyms
Immunoglobulin heavy constant epsilon, Ig epsilon chain C region, Ig epsilon chain C region ND, IGHE, IgE

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
38.60 kDa

Observed MW
45-60 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifμge the vial 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.

Background

Predicted to enable antigen binding activity and immunoglobulin receptor binding activity. Predicted to be involved in several processes, including activation of immune response; defense response to other organism; and phagocytosis. Predicted to be located in extracellular region. Predicted to be part of immunoglobulin complex, circulating. Predicted to be active in external side of plasma membrane.

Basic Information

Description
Recombinant Human IgE Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser106-Gly427) of Human IgE (Accession #AAB59395.1) fused with a His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Human IgE (Catalog: RTP0015) at 1 μg/mL (100 μL/well) can bind Human IgE Rabbit mAb (Catalog: A23194) with a linear range of 0.06-0.6 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

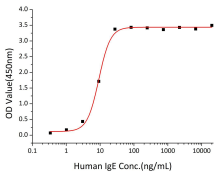
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

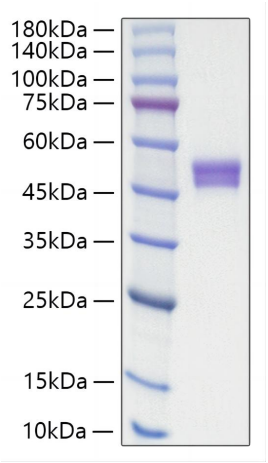
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Validation Data



Immobilized Human IgE (Catalog: RTP0015) at 1 μg/mL (100 μL/well) can bind Human IgE Rabbit mAb (Catalog: A23194) with a linear range of 0.06-0.6 ng/mL.



Recombinant Human IgE Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.