

Human IgE Protein

Cat. No. IGE-HM401

Description

Source	Recombinant Human IgE Protein is expressed from HEK293 with His and Avi tag at the C-Terminus. It contains Cys209-Lys428.
Accession	P01854
Molecular Weight	The protein has a predicted MW of 27.8 kDa. Due to glycosylation, the protein migrates to 30-35 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

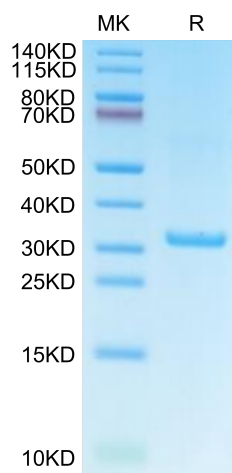
Formulation	Lyophilized from 0.22µm filtered solution in 20mM PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Immunoglobulin E (IgE) is well known for its role in allergic disease, the manifestations of which are mediated through its two Fc receptors, FcεRI and CD23 (FcεRII). 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.

Assay Data

Tris-Bis PAGE



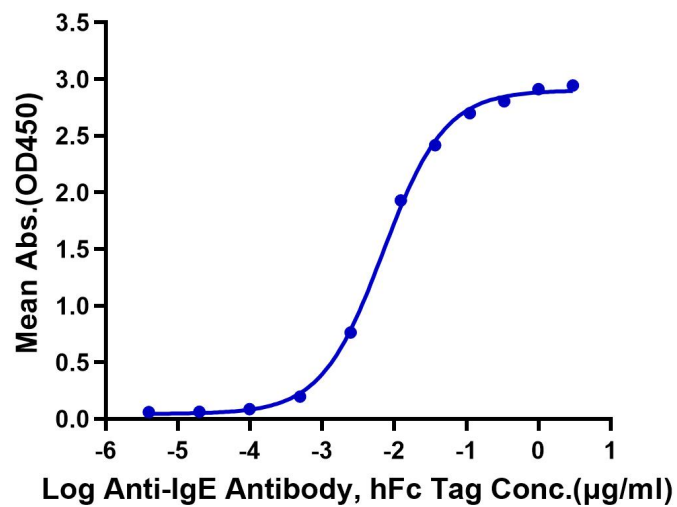
Human IgE on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Assay Data

Human IgE, His Tag ELISA

0.05 μ g Human IgE, His Tag Per Well



Immobilized Human IgE, His Tag at 0.5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Anti-IgE Antibody, hFc Tag with the EC50 of 7.0ng/ml determined by ELISA.