Human IgE Protein

Cat. No. IGE-HM101

Description

Source	Recombinant Human IgE Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Cys209-Lys428.
Accession	P01854-1
Molecular Weight	The protein has a predicted MW of 26.18 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

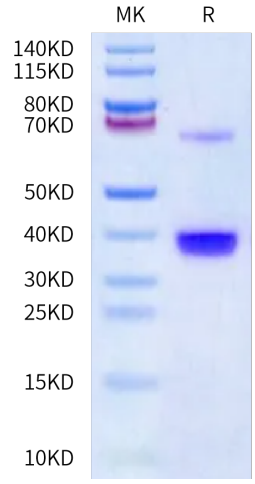
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months 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

Bis-Tris PAGE



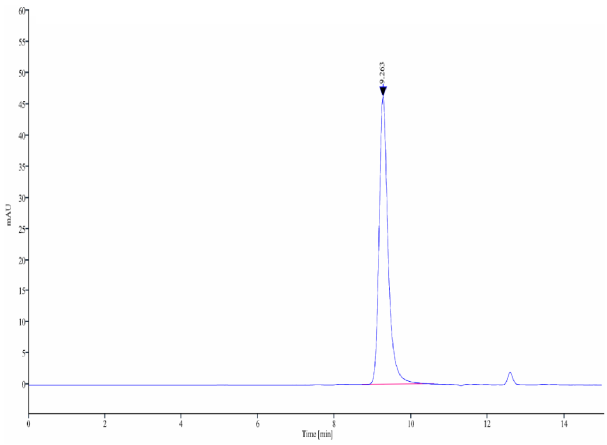
Human IgE on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

SEC-HPLC

Human IgE Protein

Cat. No. IGE-HM101

Assay Data



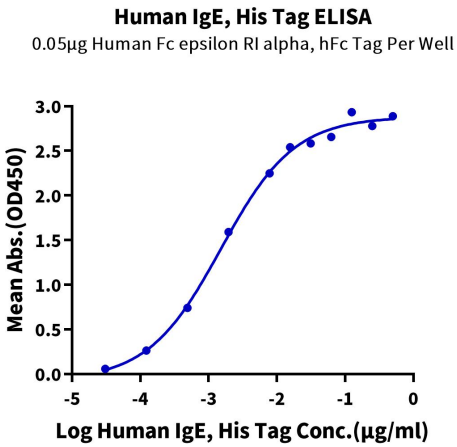
The purity of Human IgE is greater than 90% as determined by SEC-HPLC.

Human IgE Protein

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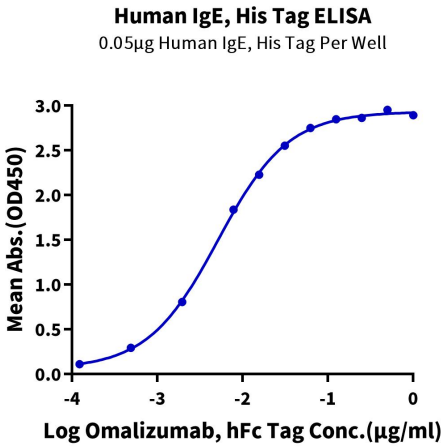
Assay Data

ELISA Data



Immobilized Human Fc epsilon RI alpha, hFc Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Human IgE, His Tag with the EC50 of 1.5ng/ml determined by ELISA.

ELISA Data



Immobilized Human IgE, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Omalizumab, hFc Tag with the EC50 of 5.1ng/ml determined by ELISA.

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