

Human Fc epsilon RI alpha/FCER1a Protein, Ultra Low Endotoxin



Cat. No. FER-HM201-UL

Description

Source	Recombinant Human Fc epsilon RI alpha/FCER1a Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus.
	It contains Val26-Gln205.
Accession	P12319-1
Molecular Weight	The protein has a predicted MW of 47.8 kDa. Due to glycosylation, the protein migrates to 70-78 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

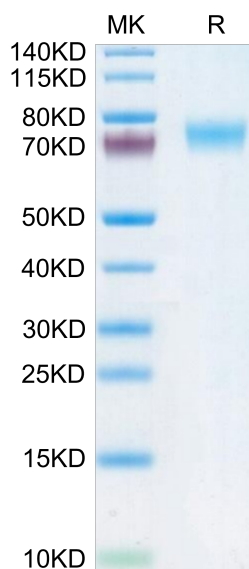
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

Known susceptibility genes to atopy and asthma have been identified by linkage or associations with clinical phenotypes, including total serum IgE levels. IgE-mediated sensitivity reactions require a high-affinity IgE receptor (FcεRI), which immobilizes the immunoglobulin on the surface of the effector cells, mostly mast cells and basophils. Similarly to the previously investigated beta subunit of the receptor, FCER1A is a good candidate for a quantitative trait locus (QTL) in allergic diseases, and appears to participate in the systemic regulation of IgE levels.

Assay Data

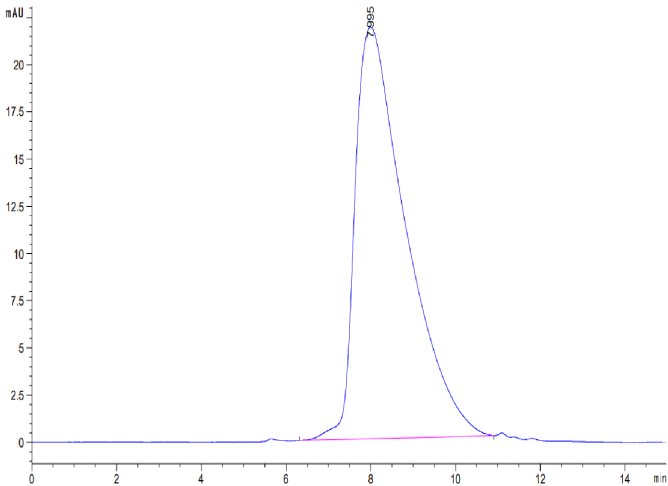
Bis-Tris PAGE



Human Fc epsilon RI alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

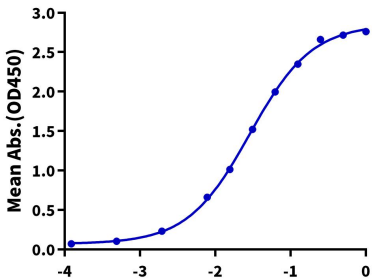
Assay Data



The purity of Human Fc epsilon RI alpha is greater than 90% as determined by SEC-HPLC.

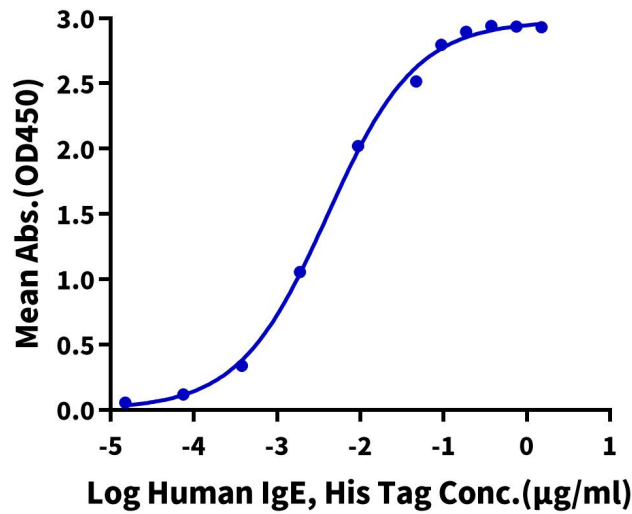
ELISA Data

Human Fc epsilon RI alpha, hFc Tag ELISA
0.1µg Human Fc epsilon RI alpha, hFc Tag Per Well



Immobilized Human Fc epsilon RI alpha, hFc Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-Fc epsilon RI alpha Antibody, hFc Tag with the EC50 28.7ng/ml determined by ELISA (QC Test).

Human Fc epsilon RI alpha, hFc Tag ELISA
0.5µg Human Fc epsilon RI alpha, hFc Tag Per Well



Immobilized Human Fc epsilon RI alpha, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human IgE, His Tag with the EC50 of 4.0ng/ml determined by ELISA.