

Bioactive

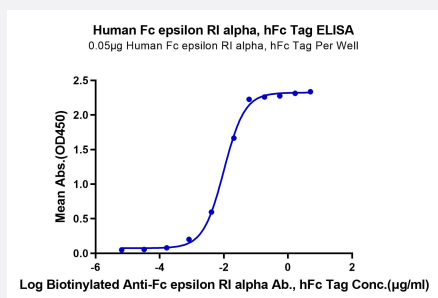
HuPro®

FCER1A (Human) Recombinant Protein

Catalog # P9830

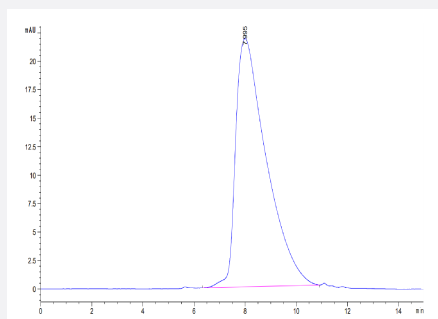
Size 100 ug

Applications



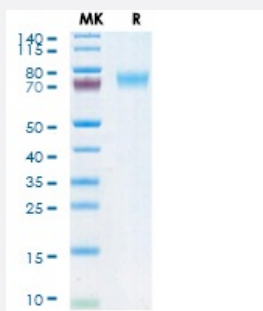
Enzyme-linked Immunoabsorbent Assay

Immobilized Human Fc epsilon RI alpha, hFc Tag at 0.5 ug/mL (100 uL/Well) on the plate. Dose response curve for Biotinylated Anti-Fc epsilon RI alpha Antibody, hFc Tag with the EC50 10 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human Fc epsilon RI alpha is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

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

Specification

Product Description

Human FCER1A (P12319-1, Val26-Gln205) partial recombinant protein with hFc tag at C-Terminus expressed in HEK293 cells.

Sequence	Val26-Gln205
Host	Human
Theoretical MW (kDa)	47.8
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 10 ng/mL, measured by ELISA at 0.5 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human Fc epsilon RI alpha is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human Fc epsilon RI alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human Fc epsilon RI alpha, hFc Tag at 0.5 ug/mL (100 uL/Well) on the plate. Dose response curve for Biotinylated Anti-Fc epsilon RI alpha Antibody, hFc Tag with the EC50 10 ng/mL determined by ELISA.

- Functional Study

- SDS-PAGE

Gene Info — FCER1A

Entrez GeneID	2205
Protein Accession#	P12319-1
Gene Name	FCER1A
Gene Alias	FCE1A, FcERI
Gene Description	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide
Omim ID	147140
Gene Ontology	Hyperlink
Gene Summary	The IgE receptor plays a central role in allergic disease, coupling allergen and mast cell to initiate the inflammatory and immediate hypersensitivity responses that are characteristic of disorders such as hay fever and asthma. The allergic response occurs when 2 or more high-affinity IgE receptors are crosslinked via IgE molecules that in turn are bound to an allergen (antigen) molecule. A perturbation occurs that brings about the release of histamine and proteases from the granules in the cytoplasm of the mast cell and leads to the synthesis of prostaglandins and leukotrienes--potent effectors of the hypersensitivity response. The IgE receptor consists of 3 subunits: alpha, beta (MIM 147138), and gamma (MIM 147139); only the alpha subunit is glycosylated.[supplied by OMIM]
Other Designations	Fc IgE receptor, alpha polypeptide Fc epsilon RI alpha-chain Fc-epsilon RI-alpha high affinity immunoglobulin epsilon receptor alpha-subunit immunoglobulin E receptor, high-affinity, of mast cells, alpha polypeptide

Pathway

- [Asthma](#)
- [Fc epsilon RI signaling pathway](#)

Disease

- [Asthma](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)

- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Coronary Artery Disease](#)
- [Dermatitis](#)
- [Drug Hypersensitivity](#)
- [Eczema](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Glomerulonephritis](#)
- [Hypersensitivity](#)
- [Infant](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Diseases](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Occupational Diseases](#)
- [Periodontitis](#)
- [Respiratory Syncytial Virus Infections](#)
- [Urticaria](#)
- [Wegener Granulomatosis](#)