

# Recombinant Mouse Fc-epsilon RI-alpha/FCER1A Protein

Catalog No.: RP01553

## Sequence Information

**Species**      **Gene ID**  
Mouse            14125

**Swiss Prot**    **Tags**  
P20489          C-hFc

**Synonyms**  
FCE1A, FcERI, FCER1A

## Product Information

**Source**            **Purification**  
HEK293 cells    ≥ 95 % as  
                         determined by  
                         SDS-PAGE.

**Calculated MW** **Observed MW**  
46.98 kDa        65-75 kDa

**Endotoxin**  
< 0.1 EU/μg of the protein by LAL method.

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

**Reconstitution**  
Centrifuge 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

FCER1A is the alpha subunit of the immunoglobulin epsilon receptor (IgE receptor). IgE receptor is a high affinity IgE receptor which 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 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. IgE receptor is comprised of an alpha subunit (FcERI), a beta subunit, and two gamma subunits. FcERI is glycosylated and contains 2 Ig-like (immunoglobulin-like) domains.

## Basic Information

### Description

Recombinant Mouse Fc-epsilon RI-alpha/FCER1A Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala24-Gln204) of mouse Fc-epsilon RI-alpha/FCER1A (Accession #NP\_034314.2) fused with a hFc tag at the C-terminus.

### Activity

### 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°C

### Operational Notes

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

## Contact

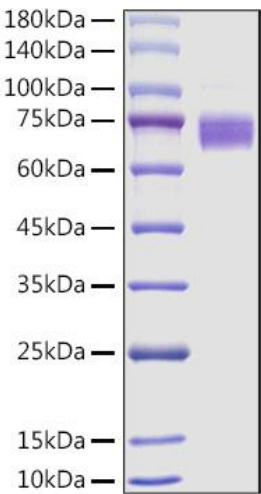
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**Validation Data**

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Recombinant Mouse Fc-epsilon RI-alpha/FCER1A Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.