

# Recombinant human Fc epsilon RI alpha/FCER1A protein

Catalog Number: ATGP2394

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

26-205aa

### UniProt No.

P12319

### NCBI Accession No.

NP\_001992.1

### Alternative Names

High affinity immunoglobulin epsilon receptor subunit alpha, Fc-epsilon RI-alpha, FcepsilonRI alpha chain, FcERI, IgE Fc receptor subunit alpha, FCER1A, FCE1A

## PRODUCT SPECIFICATION

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### Molecular Weight

23.4 kDa (203aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

The immunoglobulin epsilon receptor (IgE receptor) is the initiator of the allergic response. When two or more high-affinity IgE receptors are brought together by allergen-bound IgE molecules, mediators such as histamine that are responsible for allergy symptoms are released. This receptor is comprised of an alpha subunit, a beta subunit, and two gamma subunits. FCER1A represents the alpha subunit. Recombinant human FCER1A protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

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techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>VPQKPKV SLNPPWNRIF KGENVTLCN GNNFFEVSST KWFHNGSLSE  
ETNSSLNIVN AKFEDSGEYK CQHQQVNESE PVYLEVFSW LLLQASAEVV MEGQPLFLRC HGWRNWDVYK VIYYKDGEAL  
KYWYENHNIS ITNATVEDSG TYYCTGKVVWQ LDYSEPLNI TVIKAPREKY WLQ

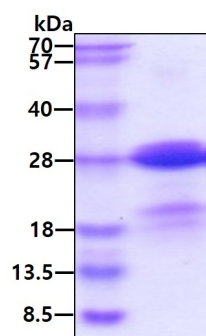
## General References

ZHANG,Y., et al. (2012) Zhonghua Er Bi Yan Hou Tou Jing Wai Ke Za Zhi 47 (4), 289-293

Zhou,J., et al. (2012) Hum. Immunol. 73 (3), 301-305

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.