Recombinant human Fc epsilon RI protein ab182693

Overview

Product name: Recombinant human Fc epsilon RI protein
Protein length: Protein fragment

Description

Nature: Recombinant
Source: HEK 293 cells

Amino Acid Sequence

Accession: P12319
Species: Human
Sequence: VPQPKVSLNPWKNRIFKGENVLTNCNGNFFEVSS
KWFHNGSLEETN
SSLNVNAKFEDSGEYKCQHQQVENSEPVYLEVFSDW
LLQASAEVVMEG
QPLFLRCHGWRNWVNVDYKYIKDGEALKYNYENNHISI
TNATVEDSGTYY
CTGKVQLQDYESEPLNITV/KAPREKYWLQ

Molecular weight: 22 kDa including tags
Amino acids: 26 to 205
Tags: His tag C-Terminus

Additional sequence information: Extracellular domain. NP_001992.

Specifications

Our Abpromise guarantee covers the use of ab182693 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity: Measured by its binding ability in a functional ELISA. Immobilized Human FCER1A at 2 µg/ml (100 µl/well).
The concentration of Human IgE that produces 50% of the optimal binding response is found to be approximately 0.1 - 0.4 µg/ml.

Applications: SDS-PAGE
### Functional Studies

**Endotoxin level**

< 1.000 Eu/µg

**Purity**

>90% by SDS-PAGE.

**Form**

Lyophilised

### Preparation and Storage

#### Stability and Storage

Shipped at 4°C. Store at -80°C. Reconstitute for long term storage.

**pH:** 7.40

**Constituents:** 5% Trehalose, 95% PBS

This product is an active protein and may elicit a biological response in vivo, handle with caution.

#### Reconstitution

It is recommended to reconstitute the lyophilized product in sterile deionized water to a final concentration of 1 mg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

### General Info

#### Function

Binds to the Fc region of immunoglobulins epsilon. High affinity receptor. Responsible for initiating the allergic response. Binding of allergen to receptor-bound IgE leads to cell activation and the release of mediators (such as histamine) responsible for the manifestations of allergy. The same receptor also induces the secretion of important lymphokines.

#### Sequence similarities

Contains 2 Ig-like (immunoglobulin-like) domains.

#### Cellular localization

Cell membrane.

### Images

SDS-PAGE analysis of reduced ab182693 stained overnight with Coomassie Blue.

---

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"
Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors