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Datasheet for ABIN7519978

## Fc epsilon RI/FCER1A Protein (His tag)

### Overview

Quantity:	100 µg
Target:	Fc epsilon RI/FCER1A (FCER1A)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Fc epsilon RI/FCER1A protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human Fc epsilon RI alpha Protein
Sequence:	VPQKPKVSLN PPWNRIFKGE NVTLCNGNN FFEVSSTKWF HNGSLSEETN SSLNIVNAKF EDSGEYKCQH QQVNESEPVY LEVFSDWLLL QASAEVMEG QPLFLRCHGW RNWDVYKVIY YKDGEALKYW YENHNISITN ATVEDSGTY Y CTGKVVQLDY ESEPLNITVI KAPREKYWLQ
Specificity:	Val26-Gln205
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.01 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized FITC anti-human FcεRIα Antibody at 1µg/mL (25 µL/well) can bind Human Fc epsilon RI alpha with a linear range of 0.46-3.15 ng/mL.

## Target Details

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Target:	Fc epsilon RI/FCER1A (FCER1A)
Alternative Name:	Fc epsilon RI alpha ( <a href="#">FCER1A Products</a> )
Background:	<p>Description: 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.</p> <p>Name: FCER1A,FCE1A,FcERI</p>
Gene ID:	2205
UniProt:	<a href="#">P12319</a>
Pathways:	<a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a>

## Application Details

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Restrictions:	For Research Use only
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## Handling

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Format:	Lyophilized
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.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.