Datasheet for ABIN7596159

Fc epsilon RI/FCER1A Protein (AA 26-205) (His tag)

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Overview

Quantity:	500 µg
Target:	Fc epsilon RI/FCER1A (FCER1A)
Protein Characteristics:	AA 26-205
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.
Application:	SDS-PAGE (SDS), Activity Assay (AcA)

Product Details

Sequence:	VPQKPKVSLN PPWNRIFKGE NVTLTCNGNN FFEVSSTKWF HNGSLSEETN SSLNIVNAKF EDSGEYKCQH QQVNESEPVY LEVFSDWLLL QASAEVVMEG QPLFLRCHGW RNWDVYKVIY YKDGEALKYW YENHNISITN ATVEDSGTYY CTGKVWQLDY ESEPLNITVI KAPREKYWLQ
Purity:	> 90% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Measured by its binding ability in a functional ELISA with Human IgE. The ED50 range ≤ 0.01 ug/ml.

Target Details

Target:	Fc epsilon RI/FCER1A (FCER1A)

Target Details

Alternative Name:	Fc epsilon RI alpha (FCER1A Products)
Background:	Fc epsilon RI alpha, also known as FCER1A, is an IgE-binding protein of the multichain immune recognition family. Fc epsilon receptor is a tetrameric complex of one alpha, one beta and two gamma subunits on mast cells and basophils. This protein represents the alpha subunit, only the alpha subunit is glycosylated. 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. 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. Recombinant human Fc epsilon RI alpha/FCER1A, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Molecular Weight:	21.8kDa (186aa)
NCBI Accession:	NP_001374209
Pathways:	Fc-epsilon Receptor Signaling Pathway, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.