

Fc epsilon RI alpha Recombinant Protein | FCER1A recombinant protein

Recombinant Human Fc epsilon RI alpha Protein

CATALOG #
AAA281514

HOST
HEK293 Cells

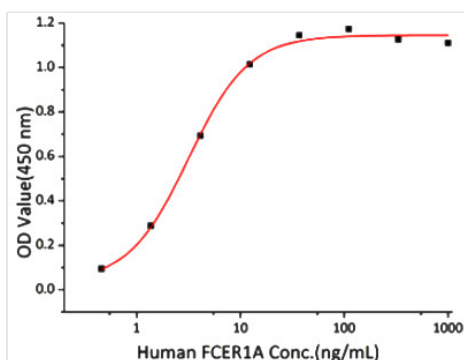
PRODUCT SYNONYMS

Fc epsilon RI alpha; Recombinant Human Fc epsilon RI alpha Protein; FcERI; FCER1A recombinant protein

PRODUCT SPECIFICATIONS

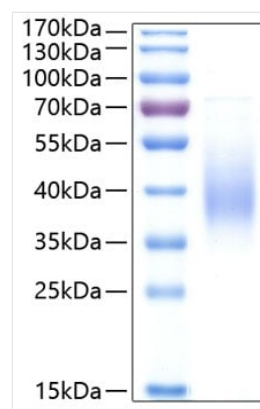
Host	HEK293 Cells
Purity/Purification	>95% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Sequence Length	257
Endotoxin	< 0.01 EU/ug of the protein by LAL method.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Tag	C-His
Bio-Activity	Measured by its binding ability in a functional ELISA. Immobilized FITC anti-human Fc ϵ RI α Antibody at 1ug/mL (25 uL/well) can bind Human Fc epsilon RI alpha with a linear range of 0.46-3.15 ng/mL.
Preparation and Storage	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. Avoid repeated freeze/thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Immobilized FITC anti-human Fc ϵ RI α ; Antibody at 1ug/mL (25 uL/well) can bind Human Fc epsilon RI alpha with a linear range of 0.46-3.15 ng/mL.



SDS-PAGE

Recombinant Human Fc epsilon RI alpha Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38-50 kDa.

ADDITIONAL INFORMATION

Related Product Information for FCER1A recombinant protein	Description: Recombinant Human Fc epsilon RI alpha Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val26-Gln205) of human Fc epsilon RI alpha (Accession #NP_001992) fused with a 6xHis tag at the C-terminus. 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.
Product Categories/Family for FCER1A recombinant protein	Fc & Fc Receptor

NCBI AND UNIPROT INFORMATION

NCBI GI #	119865
NCBI GeneID	2205
UniProt Accession #	P12319
NCBI Official Full Name	High affinity immunoglobulin epsilon receptor subunit alpha
NCBI Official Synonym Full Names	Fc fragment of IgE receptor Ia
NCBI Official Symbol	FCER1A
NCBI Official Synonym Symbols	FCE1A; FcERI
NCBI Protein Information	high affinity immunoglobulin epsilon receptor subunit alpha
UniProt Protein Name	High affinity immunoglobulin epsilon receptor subunit alpha
UniProt Gene Name	FCER1A
UniProt Synonym Gene Names	FCE1A; FcERI
UniProt Entry Name	FCERA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.