

Recombinant Human FCER1A Protein (Met1-Gln205)

Cat. No. FCER1A-567H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FCER1A Protein (NP_001992.1) (Met1-Gln205) was produced by HEK293 Cells expression system.
Species	Human
Source	HEK293
ProteinLength	Met1-Gln205
Description	<p>FcERI, also known as 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>
Predicted N Terminal	Val 26
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and

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	0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant human FCER1A consists of 180 amino acids and predicts a molecular mass of 21 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	<p>In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.</p> <p>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.</p>

GENE INFORMATION

Gene Name	FCER1A Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide [Homo sapiens]
Official Symbol	FCER1A
Synonyms	FCER1A; alpha polypeptide; FCE1A; Fc-epsilon RI-alpha; Fc epsilon RI alpha-chain;

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	FcERI;
Gene ID	2205
mRNA Refseq	NM_002001
Protein Refseq	NP_001992
MIM	147140
UniProt ID	P12319

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