

Recombinant Cynomolgus Fc gamma RIIIA/FCGR3A/CD16a (C-6His)

Catalog No. PKSQ050099

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Low Affinity Immunoglobulin Gamma Fc Region Receptor III-A;CD16a

Antigen;Fc-Gamma RIII-Alpha;Fc-Gamma RIII;Fc-gamma

RIIIa;FcRIII;FcRIIIa;FcR-10;IgG Fc Receptor

III-2;CD16a;FCGR3A;CD16A;FCG3;FCGR3;IGFR3

Species Cynomolgus macaques

Expression Host HEK293 Cells
Sequence Glu21-Gly206
Accession A0A140HDP8

Calculated Molecular Weight 22 kDa

Observed molecular weight 30-40 kDa

Tag C-His

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

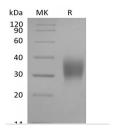
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

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Receptors for the Fc region of immunoglobin G (FcγR) are divided into three classes and FcγRIII is a multifunctional, low/intermediate affinity receptor. In humans, FcyRIII is expressed as two distinct forms (FcyRIIIA and FcyRIIIB) that are encoded by two different but highly homologous genes in a cell type-specific manner. FcyRIIIB is a low-affinity, GPIlinked receptor expressed by neutrophils and eosinophils, whereas FcγRIIIA is an intermediate affinity polypeptideanchored transmembrane glycoprotein expressed by a subset of T lymphocytes, natural killer (NK) cells, monocytes, and macrophages. The FcyRIIIA receptor is involved in phagocytosis, secretion of enzymes, inflammatory mediators, antibody-dependent cellular cytotoxicity (ADCC), mast cell degranulation, and clearance of immune complexes. FcγRIIIA has an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain and delivers an activation signal in the immune responses. Aberrant expression or mutations in this gene is implicated in susceptibility to recurrent viral infections, systemic lupus erythematosus, and alloimmune neonatal neutropenia. In humans, it is a 50 -70 kD type I transmembrane activating receptor. The FcγRIIIA cDNA encodes 254 amino acid including a 16aa signal sequence, 191 amino acid ECD with two C2-type Ig-like domains, five potential N-glycosylation sites, a 22 amino acid transmembrane sequence and a 25 amino acid cytoplasmic domain.

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