

Recombinant Human Fc-gamma RIII alpha/CD16a(F176V) Protein

Catalog No.: RP01366 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2214[F176V[]P08637

Tags C-His

Synonyms

CD16;CD16A;FCG3;FCGR3;FCGRIII;FCR-1 0;FCRIII;FCRIIIA;IGFR3;IMD20;FCGR3A

Product Information

Source

Purification

HEK293 cells ≥ 95 % as determined by SDS-

PAGE

Calculated MW Observed MW

22.62 kDa 38-52 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

This protein is a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other other antibody-dependent responses. The protein is expressed on natural killer (NK) cells as an integral membrane glycoprotein anchored through a transmembrane peptide, whereas FCGR3B is expressed on polymorphonuclear neutrophils (PMN) where the receptor is anchored through a phosphatidylinositol (PI) linkage. Mutations in this gene have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia.

Basic Information

Description

Recombinant Human Fc-gamma RIII alpha/CD16a(F176V) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly17-Gln208(F176V)) of human FCGR3A/CD16A(F176V) (Accession #NP 001121065.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

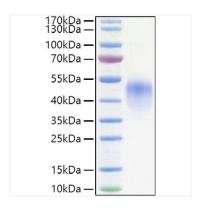
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human Fc-gamma RIII alpha/CD16a(F176V) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.