

# Recombinant Human Fc-gamma RIII beta/FCGR3B/CD16b (S36R, N82D, I106V) Protein

Catalog No.: RP00474 Recombinant

# **Sequence Information**

**Species Gene ID Swiss Prot** Human 2215 075015

# Tags

C-His

### **Synonyms**

CD16; Fc gamma RIIIB; FCG3; FCGR3B; FcgRIIIB; FCRIIIB; IGFR3; CD16b (NA2); CD16B; FCG3B; FCG3; FCGR3; FCR-10

## **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-PAGE;≥ 95 % as determined by HPLC.

## Calculated MW Observed MW

22.52 kDa 40-50 kDa

#### **Endotoxin**

< 1 EU/ $\mu g$  of the protein by LAL method.

## **Formulation**

Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

#### 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

Human Fc gamma RIIIB/CD16b Protein is a receptor for the Fc region of immunoglobulins gamma. Low affinity receptor. Binds complexed or aggregated IgG and also monomeric IgG. Contrary to III-A, is not capable to mediate antibody-dependent cytotoxicity and phagocytosis. May serve as a trap for immune complexes in the peripheral circulation which does not activate neutrophils.

## **Basic Information**

#### **Description**

Recombinant Human Fc-gamma RIII beta/FCGR3B/CD16b (S36R, N82D, I106V) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly17-Ser200) of Human Fc-gamma RIII beta/FCGR3B/CD16b (S36R,N82D,I106V) (Accession #O75015) fused with a C-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.

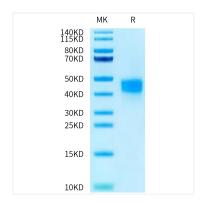
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

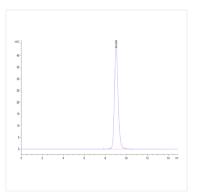
#### **Operational Notes**

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

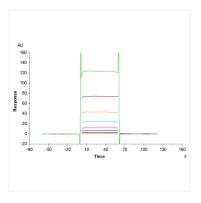
# **Validation Data**



Recombinant Human Fc-gamma RIII beta/FCGR3B/CD16b (S36R, N82D, I106V) Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human Fc gamma RIIIB (NA1) is greater than 95% as determined by SEC-HPLC.



Human Fc gamma RIIIB (NA1), His Tag captured on CM5 Chip via anti-his antibody can bind Rituximab with an affinity constant of  $8.55~\mu\text{M}$  as determined in SPR assay (Biacore T200).