

**Synonym**

FCGR3

Source

Rhesus macaque CD16, His Tag(FC6-R52H6) is expressed from human 293 cells (HEK293). It contains AA Glu 21 - Gly 206 (Accession # [A3RFZ7-1](#)).

Predicted N-terminus: Glu 21

Molecular Characterization

**CD16(Glu 21 - Gly 206)
A3RFZ7-1**

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 23.1 kDa. The protein migrates as 35-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

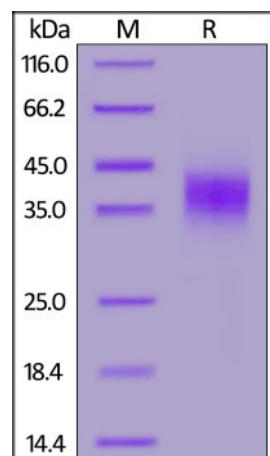
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

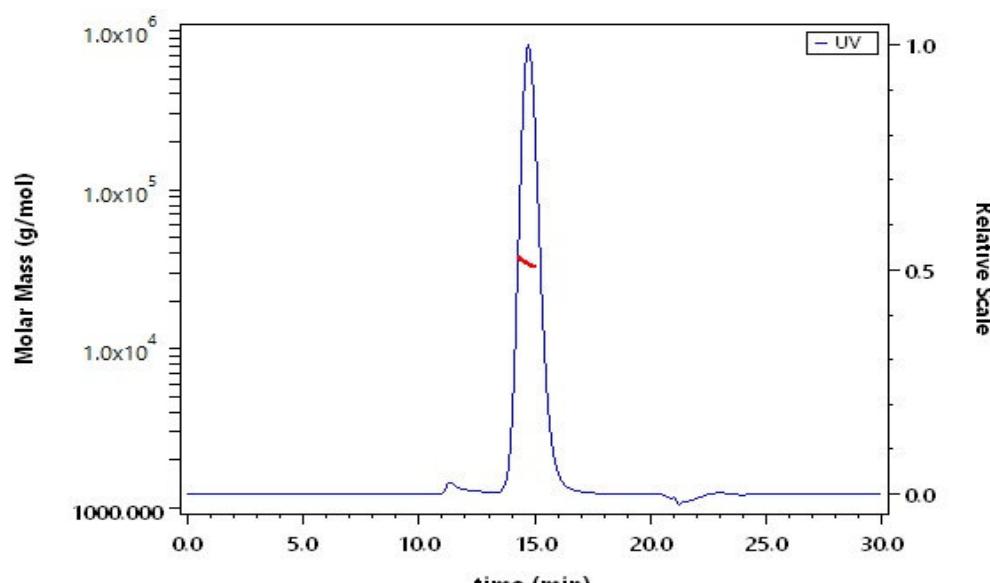
Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Rhesus macaque CD16, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS

The purity of Rhesus macaque CD16, His Tag (Cat. No. FC6-R52H6) is more than 90% and the molecular weight of this protein is around 40-50 kDa verified by SEC-MALS.

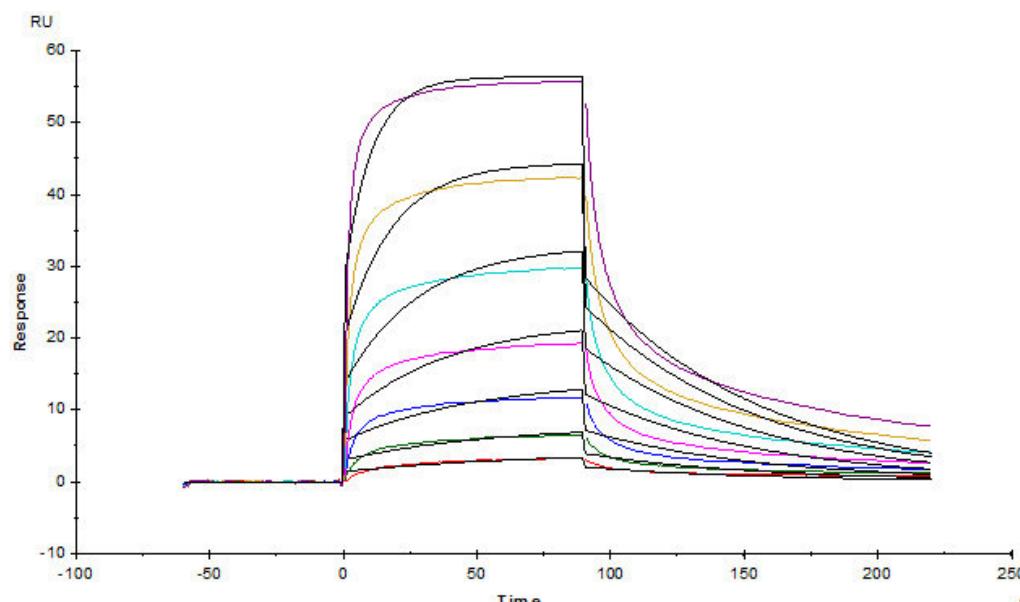
[Report](#)

Bioactivity-SPR

Discounts, Gifts,
and more!

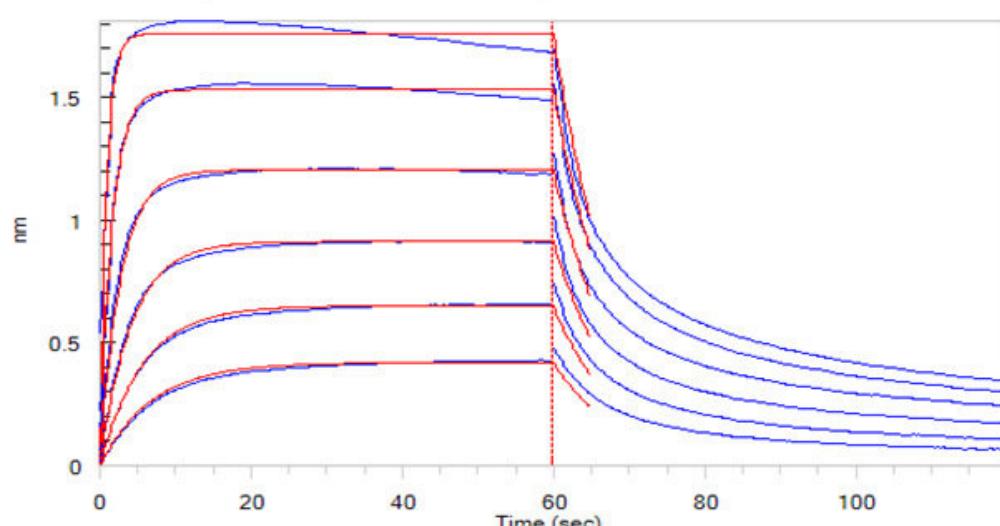


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Rhesus macaque CD16, His Tag (Cat. No. FC6-R52H6) captured on CM5 Chip via anti-His antibody can bind Rituximab with an affinity constant of 0.232 μ M as determined in SPR assay (Biacore T200) (QC tested).

Bioactivity-BLI



Loaded Rhesus macaque CD16, His Tag (Cat. No. FC6-R52H6) on HIS1K Biosensor, can bind Rituximab with an affinity constant of 0.28 μ M as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

CD16 is a low affinity Fc receptor, and has been identified as Fc receptors Fc γ RIIIa (CD16a) and Fc γ RIIIb (CD16b). These receptors bind to the Fc portion of IgG antibodies. CD16 encoded by two different highly homologous genes in a cell type-specific manner. CD16 is found on the surface of natural killer cells, neutrophil polymorphonuclear leukocytes, monocytes and macrophages.

CD16a antigen is also known as Low affinity immunoglobulin gamma Fc region receptor III-A, Fc-gamma RIII-alpha. CD16b is a low-affinity, GPI-linked receptor expressed by neutrophils and eosinophils, whereas CD16a is an intermediate affinity polypeptide-anchored transmembrane glycoprotein expressed natural killer cells, macrophages, subpopulation of T-cells, immature thymocytes and placental trophoblasts. CD16a is involved in phagocytosis, secretion of enzymes and inflammatory mediators, antibody-dependent cytotoxicity and clearance of immune complexes. Aberrant expression or mutations of CD16a is implicated in susceptibility to recurrent viral infections, systemic lupus erythematosus, and alloimmune neonatal neutropenia.

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