Biotinylated Cynomolgus Fc gamma RIII/CD16 Protein

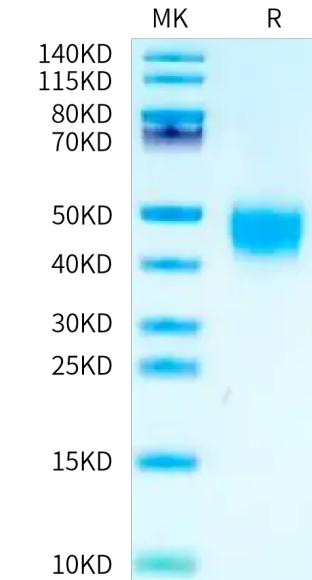**Cat. No.**   FGR-CM4R3B

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Description

Source	Recombinant Biotinylated Cynomolgus Fc gamma RIII/CD16 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus.
	It contains Gly17-Gln208.
Accession	Q8SPW2-1
Molecular Weight	The protein has a predicted MW of 24.86 kDa. Due to glycosylation, the protein migrates to 42-52 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Immunoglobulin G (IgG) Fc receptors play a critical role in linking IgG antibody-mediated immune responses with cellular effector functions. A high resolution map of the binding site on human IgG1 for human Fc gamma RI, Fc gamma RIIA, Fc gamma RIIB, Fc gamma RIIIA, and FcRn receptors has been determined.A common set of IgG1 residues is involved in binding to all Fc gamma R; Fc gamma RII and Fc gamma RIII also utilize residues outside this common set.

Assay Data

Bis-Tris PAGE

Biotinylated Cynomolgus Fc gamma RIII on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.
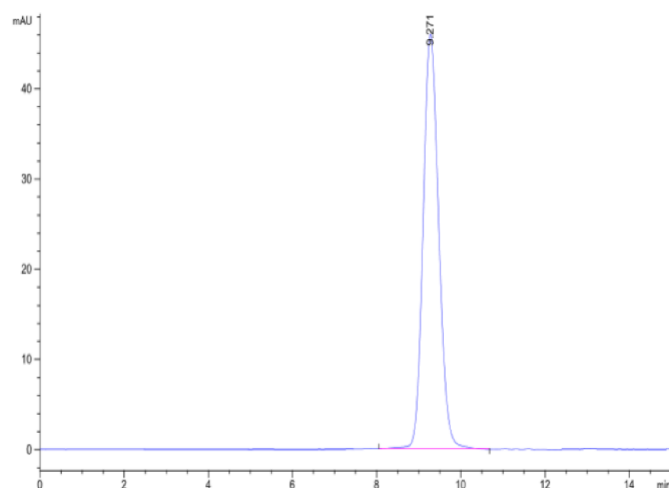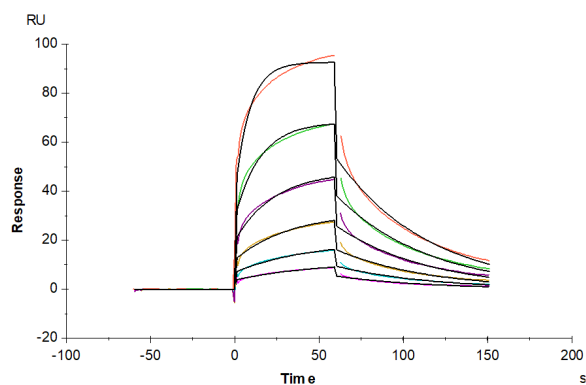
SEC-HPLC

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Assay Data

The purity of Biotinylated Cynomolgus Fc gamma RIII is greater than 95% as determined by SEC-HPLC.

SPR Data

Biotinylated Cynomolgus Fc gamma RIII, His Tag captured on CM5 Chip via Anti-His Antibody can bind Rituximab with an affinity constant of 0.15 µM as determined in SPR assay (Biacore T200) (QC Test).

For Research Use Only