

Cynomolgus Fc gamma RIII/CD16 Protein, Ultra Low Endotoxin



Cat. No. FGR-CM1R3-UL

Description

Source	Recombinant Cynomolgus Fc gamma RIII/CD16 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Gly17-Gln208.
Accession	Q8SPW2-1
Molecular Weight	The protein has a predicted MW of 23.1 kDa. Due to glycosylation, the protein migrates to 45-55 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.001 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

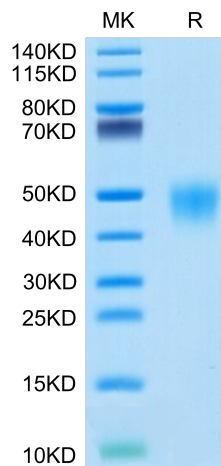
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

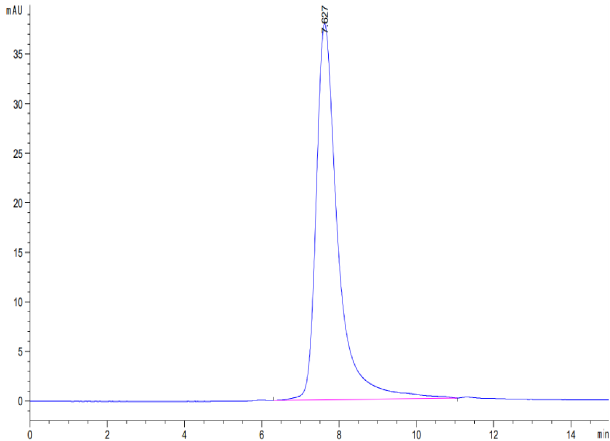
Bis-Tris PAGE



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

SEC-HPLC

Assay Data



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

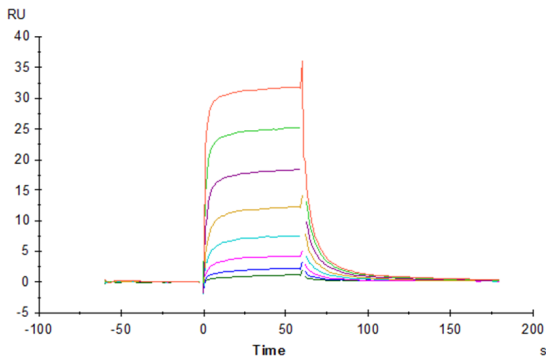
Cynomolgus Fc gamma RIII/CD16 Protein, Ultra Low Endotoxin



Cat. No. FGR-CM1R3-UL

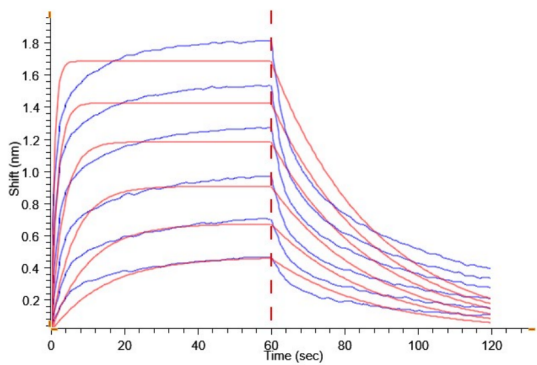
Assay Data

SPR Data



Rituximab captured on CM5 Chip via Protein A can bind Cynomolgus Fc gamma RIII, His Tag with an affinity constant of 0.251 μ M as determined in SPR assay (Biacore T200).

BLI Data



Loaded Cynomolgus Fc gamma RIII, His Tag on Anti-His-Biosensor, can bind Rituximab with an affinity constant of 0.14 μ M as determined in BLI assay (Gator).