Cynomolgus Fc gamma RIII/CD16 Protein

Cat. No. FGR-CM1R3

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 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

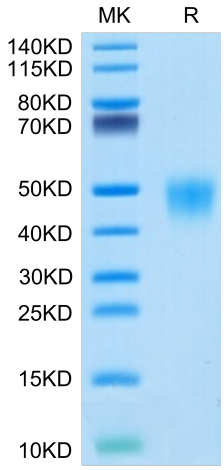
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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



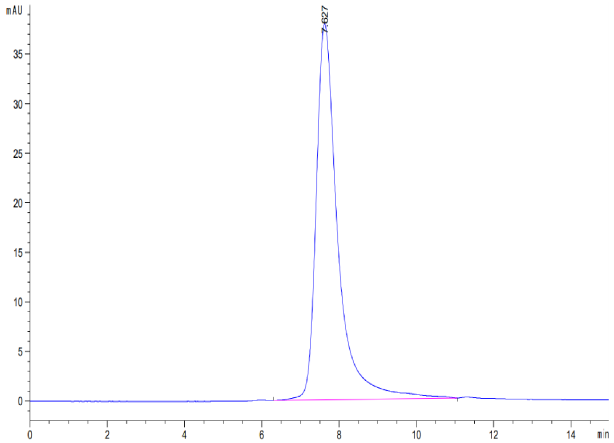
Cynomolgus Fc gamma RIII on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Cynomolgus Fc gamma RIII/CD16 Protein

Cat. No. FGR-CM1R3

Assay Data



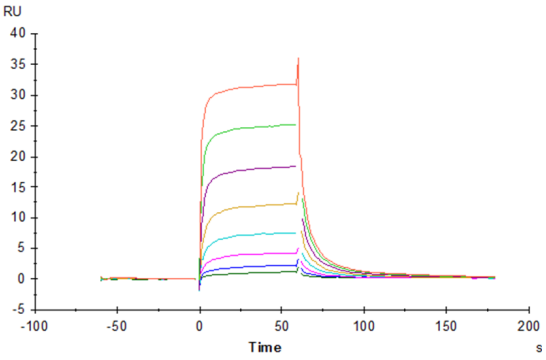
The purity of Cynomolgus Fc gamma RIII is greater than 95% as determined by SEC-HPLC.

Cynomolgus Fc gamma RIII/CD16 Protein

Cat. No. FGR-CM1R3

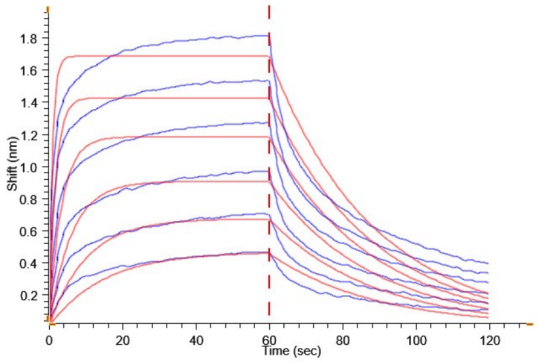
Assay Data

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 μM 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 μM as determined in BLI assay (Gator).