

# Mouse Fc gamma RIII/CD16 Protein

Cat. No. FGR-MM1R3



## Description

Source	Recombinant Mouse Fc gamma RIII/CD16 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu32-Thr215.
Accession	Q5D5I8
Molecular Weight	The protein has a predicted MW of 22.2 kDa. Due to glycosylation, the protein migrates to 40-48 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per ug by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

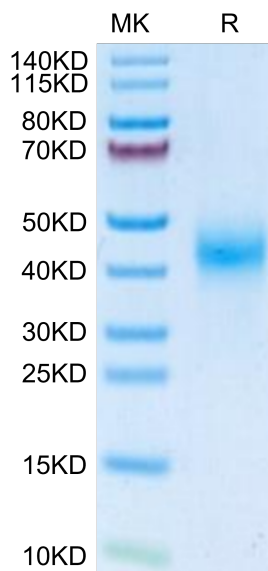
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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



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

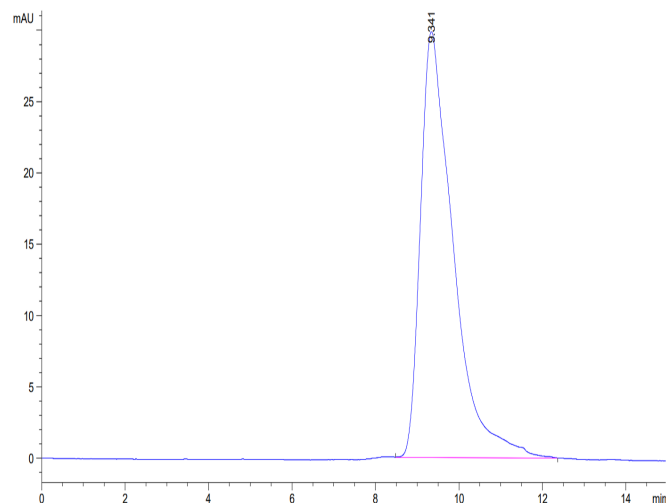
### SEC-HPLC

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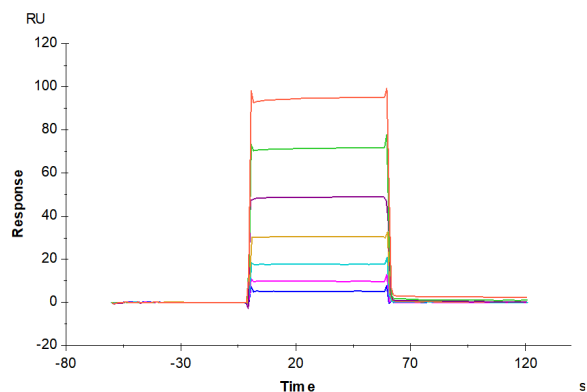


### Assay Data



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

### SPR Data



OKT3 captured on CM5 Chip via Protein A can bind Mouse Fc gamma RIII, His Tag with an affinity constant of 2.34  $\mu$ M as determined in SPR assay (Biacore T200).