

Rev03  
 Update: Aug,08,2025
**DATASHEET**

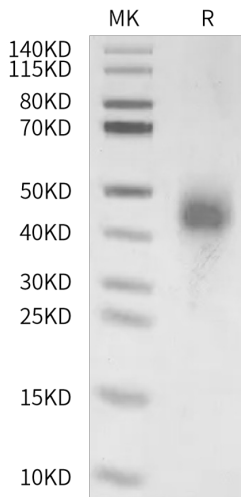
# Fc gamma RIII/CD16[Biotin], His & Avi, Mouse

Cat. No.: Z04655

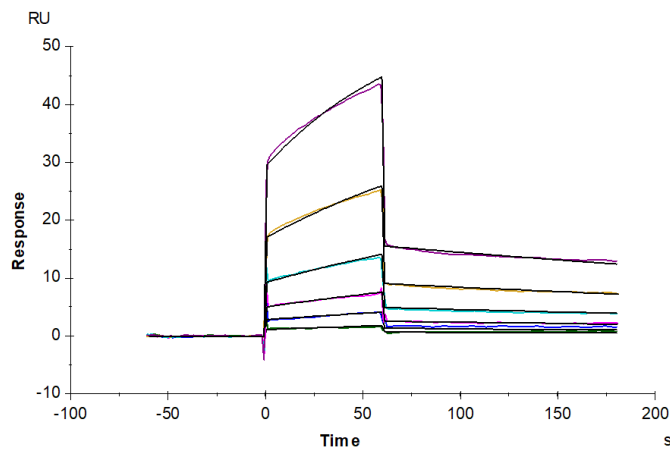
## Product Introduction

<b>Species</b>	Mouse
<b>Protein Construction</b>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;">           Fc gamma RIII/CD16 (Leu32-Thr215)            Accession # Q5D5I8         </div> <div style="background-color: #90c080; color: white; padding: 5px; text-align: center; margin: 0 5px;">His</div> <div style="background-color: #4f81b7; color: white; padding: 5px; text-align: center; margin: 0 5px;">Avi</div> </div> <div style="display: flex; justify-content: space-between; width: 100%; margin-top: 5px;"> <span>N-term</span> <span>C-term</span> </div>
<b>Conjugate</b>	Biotin
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	OKT3 captured on CM5 Chip via Protein A can bind Fc gamma RIII/CD16[Biotin], His & Avi, Mouse in SPR assay (Biacore T200). Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	23.97 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution in PBS, (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

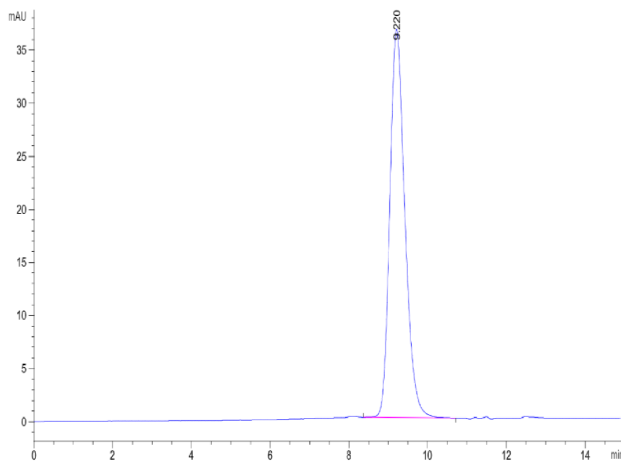
## Examples



Fc gamma RIII/CD16[Biotin], His & Avi, Mouse on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



OKT3 captured on CM5 Chip via Protein A can bind Fc gamma RIII/CD16[Biotin], His & Avi, Mouse, His Tag with an affinity constant of 0.164  $\mu\text{M}$  as determined in SPR assay (Biacore T200).



The purity of Fc gamma RIII/CD16[Biotin], His & Avi, Mouse is greater than 95% as determined by SEC-HPLC.

## Background

**Target 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 RIIIB, 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.

**Synonyms :** IgG Fc receptor III; Fc-gamma RIII; FcRIII; FCGR3; CD16; CD16A; FCG3; FcgRIII; FCR-10; FCRIIIA; IGFR3; IMD20

**For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.**

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