

Rev04  
 Update: Aug,08,2025
**DATASHEET**

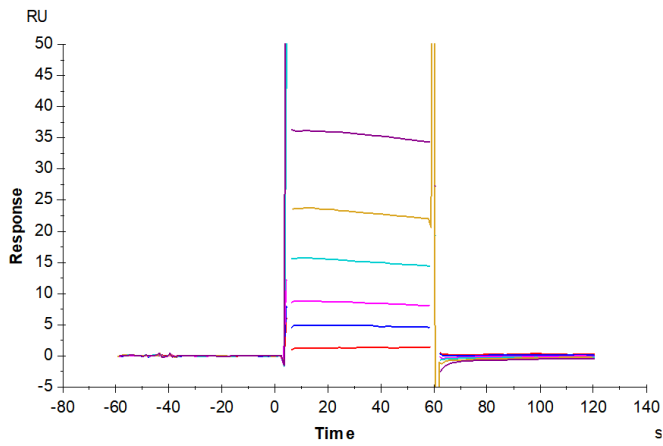
# Fc gamma RIIA/CD32a (R167)[Biotin], His & Avi, Human

Cat. No.: Z04450

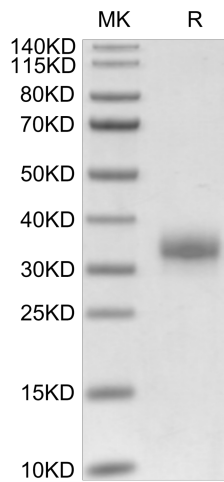
## Product Introduction

<b>Species</b>	Human
<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;"> <b>Fc gamma RIIA/CD32a (R167)[Ala36-Ile218(R167)]</b>            Accession # P12318-1         </div> <div style="margin: 0 10px;"> <div style="background-color: #90c040; padding: 5px; text-align: center;">His</div> <div style="background-color: #4f81bd; padding: 5px; text-align: center;">Avi</div> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <span>N-term</span> <span>C-term</span> </div>
<b>Conjugate</b>	Biotin
<b>Purity</b>	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Fc gamma RIIA/CD32a (R167)[Biotin], His & Avi, Human captured on CM5 Chip via antiHis antibody can bind Rituximab in SPR assay (Biacore T200). Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	23.2 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22µm 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.

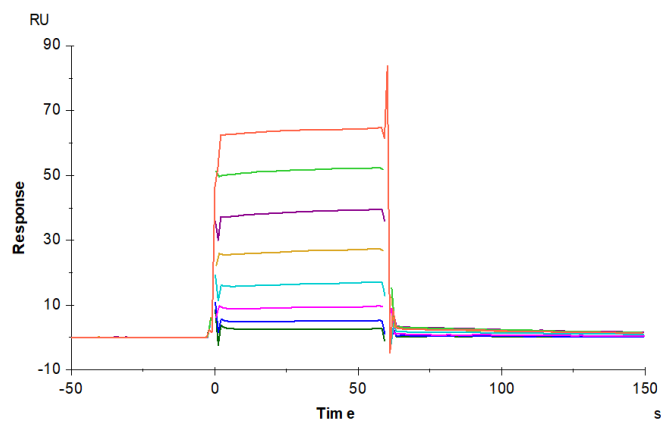
## Examples



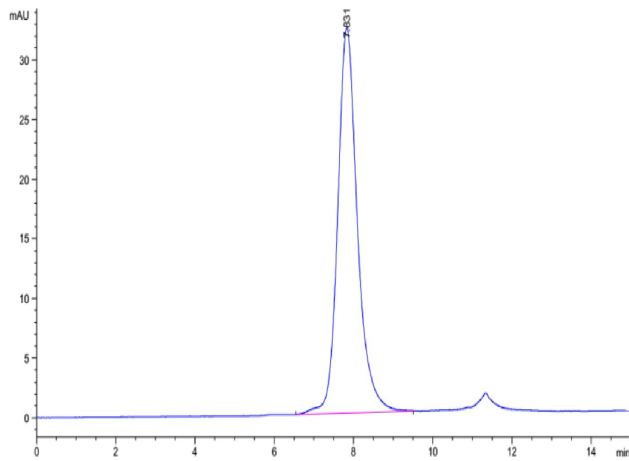
Fc gamma RIIA/CD32a (R167)[Biotin], His & Avi, Human , His-Avi Tag captured on CM5 Chip via anti-his antibody can bind Rituximab with an affinity constant of 2.17  $\mu$ M as determined in SPR assay (Biacore T200) (QC Test).



Fc gamma RIIA/CD32a (R167)[Biotin], His & Avi, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Rituximab captured on CM5 Chip via Protein A can bind Fc gamma RIIA/CD32a (R167)[Biotin], His & Avi, Human, His-Avi Tag with an affinity constant of 1.03  $\mu$ M as determined in SPR assay (Biacore T200).



The purity of Fc gamma RIIA/CD32a (R167)[Biotin], His & Avi, Human is greater than 95% as determined by SEC-HPLC.

## Background

**Target Background :** The Fc gamma Rs have been divided into three classes based on close relationships in their extracellular domains; these groups are designated Fc gamma RI (also known as CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Each group may be encoded by multiple genes and exist in different isoforms depending on species and cell type. The CD64 proteins are high affinity receptors ( $\sim 10e-8-10e-9$  M) capable of binding monomeric IgG, whereas the CD16 and CD32 proteins bind IgG with lower affinities ( $\sim 10e-6-10e-7$  M) only recognizing IgG aggregates surrounding multivalent antigens.

**Synonyms :** Fc gamma RIIA; FCG2; FCGR2; FCGR2A; FCGR2A1; FcgRIIA; FCRIIA; fcRII-a; FCG2; CD32A; Fc $\gamma$ RIIA; Fc  $\gamma$ RIIA; Fc $\gamma$  RIIA; Fc  $\gamma$  RIIA

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

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China