

Rev04
 Update: Aug,08,2025

DATASHEET

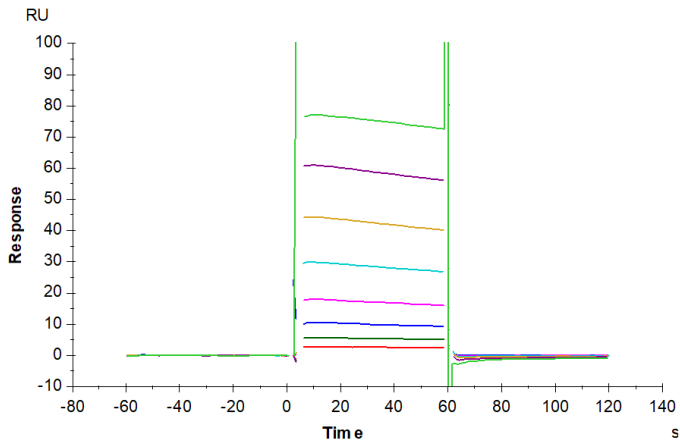
Fc gamma RIIA/CD32a (H167)[Biotin], His & Avi, Human

Cat. No.: Z04080

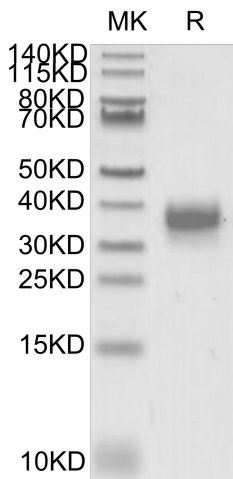
Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> Fc gamma RIIA/CD32a (H167)[Ala36-Ile218(H167)] 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: #408040; padding: 5px; text-align: center;">Avi</div> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px; font-size: small;"> N-term C-term </div>
Conjugate	Biotin
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Fc gamma RIIA/CD32a (H167)[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.
Expression System	HEK293
Theoretical Molecular Weight	23.2 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	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.

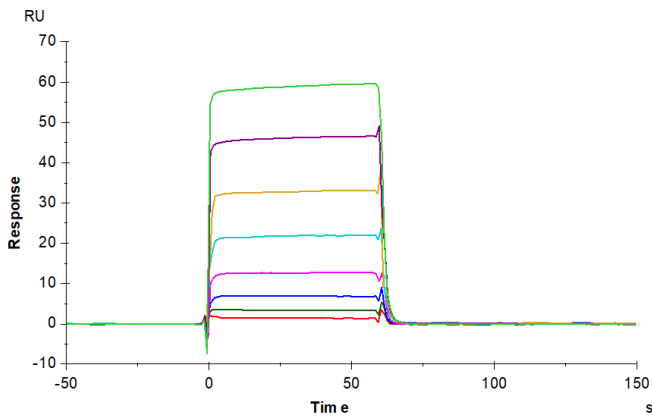
Examples



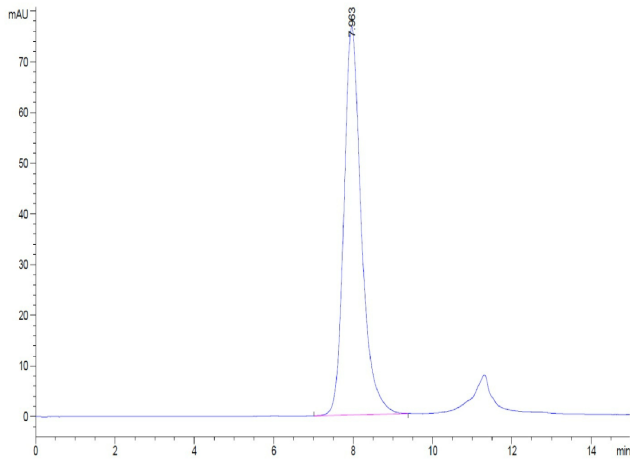
Fc gamma RIIA/CD32a (H167)[Biotin], His & Avi, Human, His-Avi Tag captured on CM5 Chip via Anti-his antibody can bind Rituximab with an affinity constant of 1.44 μM as determined in SPR assay (Biacore T200) (QC Test).



Fc gamma RIIA/CD32a (H167)[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 Biotinylated Fc gamma RIIA/CD32a (H167)[Biotin], His & Avi, Human, His-Avi Tag with an affinity constant of 0.680 μM as determined in SPR assay (Biacore T200).



The purity of Fc gamma RIIA/CD32a (H167)[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 γ RIIA; Fc γ RIIA; Fc γ RIIA; Fc γ RIIA

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

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