

Rev03
 Update: Aug,08,2025

DATASHEET

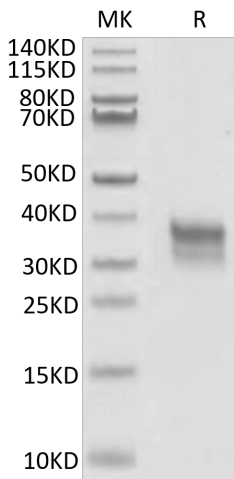
Fc gamma RIIA/CD32a, His, Cynomolgus

Cat. No.: Z04131

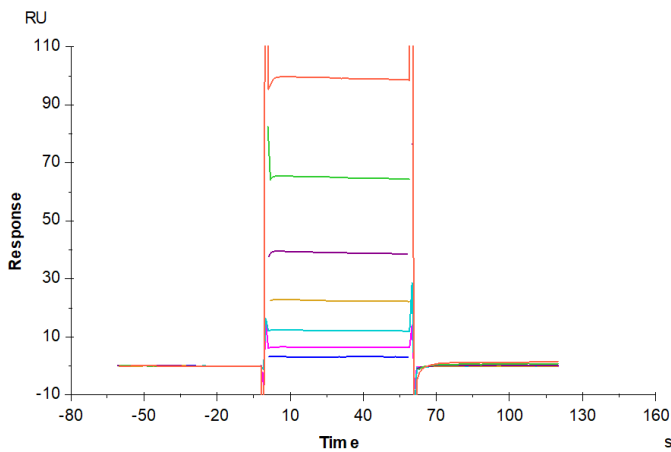
Product Introduction

Species	Cynomolgus
Protein Construction	<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> Fc gamma RIIA/CD32a (Gln28-Pro208) Accession # Q8SPW4-1 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> His </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> N-term C-term </div>
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, His, Cynomolgus 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	21.3 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.

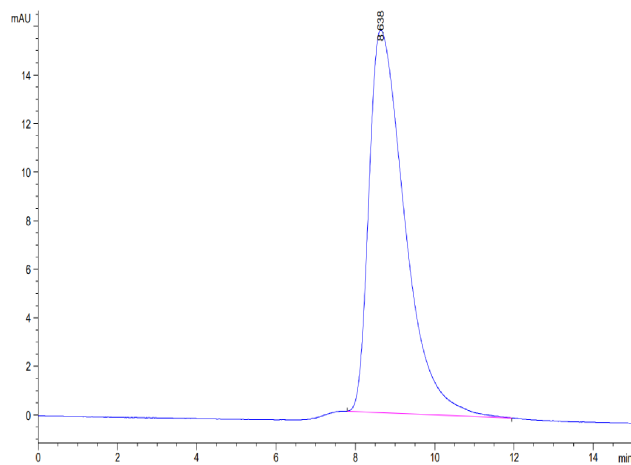
Examples



Fc gamma RIIA/CD32a, His, Cynomolgus on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Fc gamma RIIA/CD32a, His, Cynomolgus, His Tag captured on CM5 Chip via Anti-his antibody can bind Rituximab with an affinity constant of $4.39 \mu\text{M}$ as determined in SPR assay (Biacore T200).



The purity of Fc gamma RIIA/CD32a, His, Cynomolgus 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 ($\sim 10^{-8}$ - 10^{-9} M) capable of binding monomeric IgG, whereas the CD16 and CD32 proteins bind IgG with lower affinities ($\sim 10^{-6}$ - 10^{-7} M) only recognizing IgG aggregates surrounding multivalent antigens.

Synonyms : Fc gamma RIIA; FCG2; FCGR2; FCGR2A; FCGR2A1; FcgRIIA; FCRIIA; fcRII-a; FCG2; CD32A; FcγRIIA; Fc γRIIA; Fcγ RIIA; Fc γ RIIA

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

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