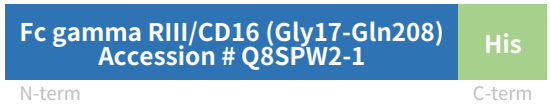
Rev03
Update: Aug,08,2025

DATASHEET

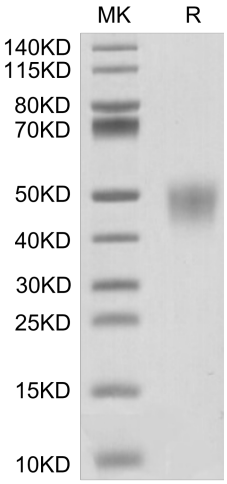
Fc gamma RIII/CD16, His, Cynomolgus

Cat. No.: Z04788

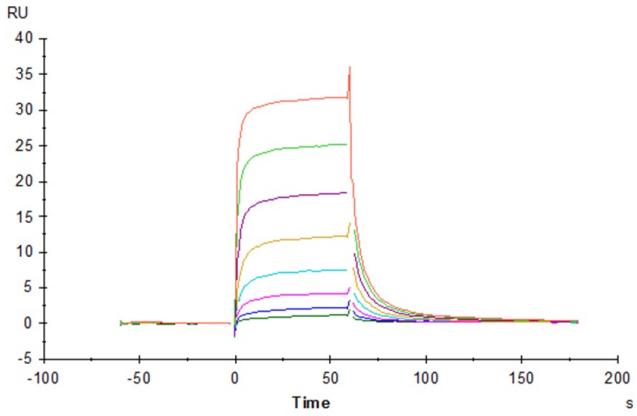
Product Introduction

Species	Cynomolgus
Protein Construction	
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per μg by the LAL method.
Biological Activity	Rituximab captured on CM5 Chip via Protein A can bind Fc gamma RIII/CD16, His, Cynomolgus in SPR assay (Biacore T200). Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	23.1 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 45-55 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from a 0.22 μm 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.

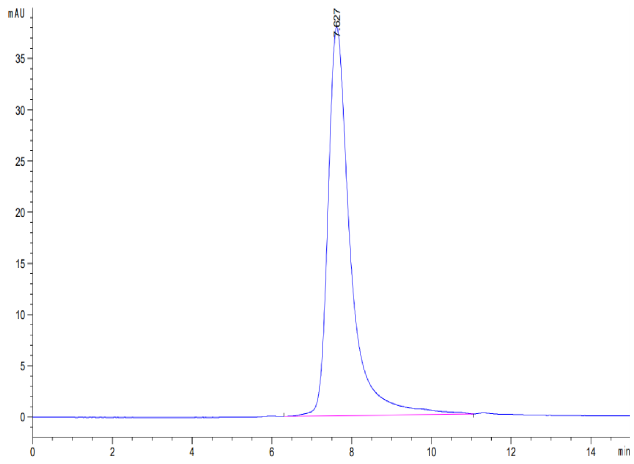
Examples



Fc gamma RIII/CD16, His, Cynomolgus 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 RIII/CD16, His, Cynomolgus, His Tag with an affinity constant of 0.251 μM as determined in SPR assay (Biacore T200).



The purity of Fc gamma RIII/CD16, His, Cynomolgus 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 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.

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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