Human Fc gamma RIIIA/CD16a (F176) Protein

Cat. No. CDA-HM416

Description

Source	Recombinant Human Fc gamma RIIIA/CD16a (F176) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus..
	It contains Gly17-Gln208(F176).
Accession	P08637-1
Molecular Weight	The protein has a predicted MW of 24.7 kDa. Due to glycosylation, the protein migrates to 48-58 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

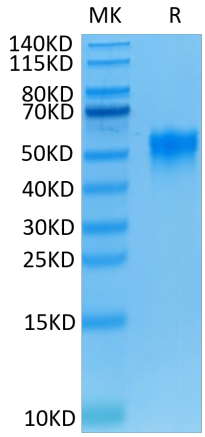
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Human Fc gamma RIIIA/CD16a Protein is a receptor for the Fc region of IgG. Binds complexed or aggregated IgG and also monomeric IgG. Mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis.

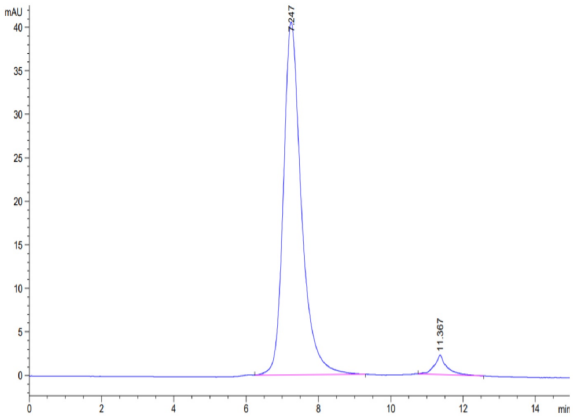
Assay Data

Bis-Tris PAGE



Human Fc gamma RIIIA (F176) on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC



The purity of Human Fc gamma RIIIA (F176) is greater than 95% as determined by SEC-HPLC.

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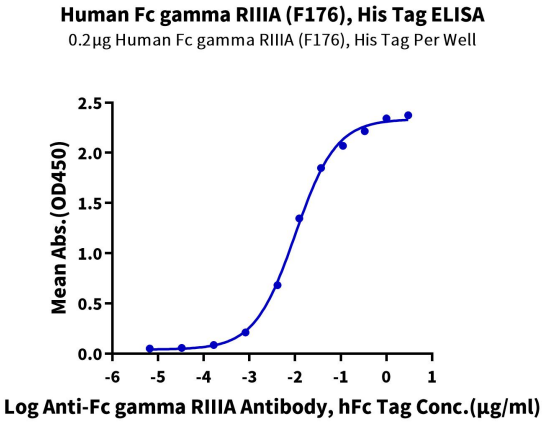
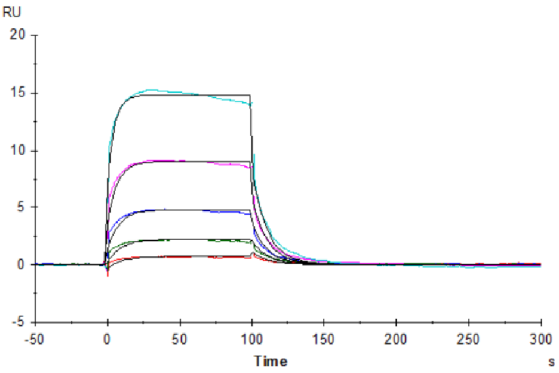
Assay Data

ELISA Data



Immobilized Human Fc gamma RIIIA (F176) , His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-Fc gamma RIIIA Antibody, hFc Tag with the EC50 of 10.1ng/ml determined by ELISA (QC Test).

SPR Data



Human Fc gamma RIIIA (F176) , His Tag captured on CM5 Chip via anti-His antibody can bind Rituximab, hFc Tag with an affinity constant of 0.92μM as determined in SPR assay (Biacore T200).