

Non-biotinylated Human Fc gamma RIIA/CD32a (H167) Protein, Ultra Low Endotoxin



Cat. No. CDA-HM432-UL

Description

Source	Recombinant Human Fc gamma RIIA/CD32a (H167) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gln34-Ile218(H167).
Accession	P12318-1
Molecular Weight	The protein has a predicted MW of 23.4 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

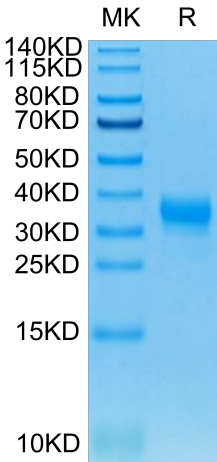
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

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.

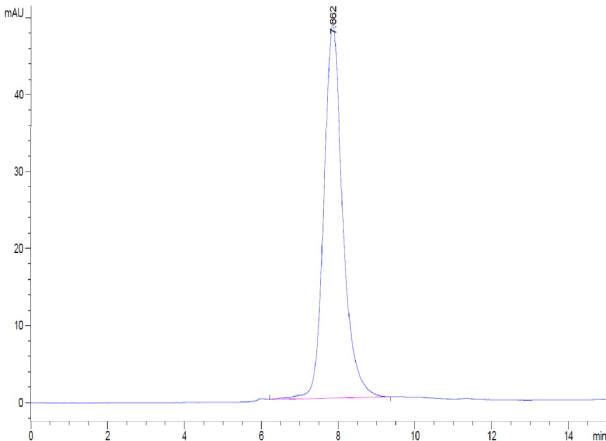
Assay Data

Bis-Tris PAGE



Human Fc gamma RIIA (H167) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

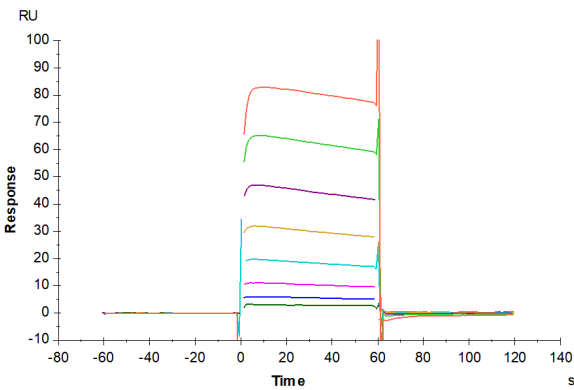
SEC-HPLC



The purity of Human Fc gamma RIIA (H167) is greater than 95% as determined by SEC-HPLC.

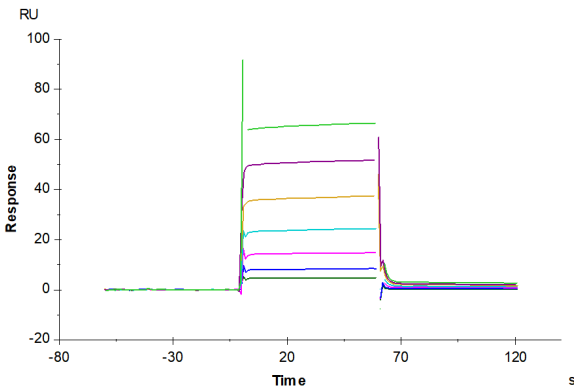
Assay Data

SPR Data



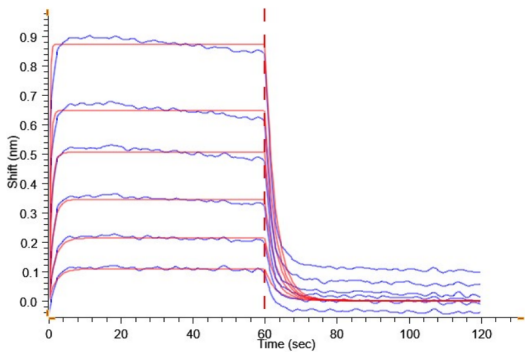
Human Fc gamma RIIA (H167) , His Tag captured on CM5 Chip via anti-his antibody can bind Rituximab with an affinity constant of 1.53 μ M as determined in SPR assay (Biacore T200) (QC Test).

SPR Data



Rituximab captured on CM5 Chip via Protein A can bind Human Fc gamma RIIA (H167) , His Tag with an affinity constant of 0.73 μ M as determined in SPR assay (Biacore T200).

BLI Data



Loaded Human Fc gamma RIIA (H167), His Tag on Anti-His-Biosensor, can bind Rituximab with an affinity constant of 0.71 μ M as determined in BLI assay (Gator).