

# Human Fc gamma RIIA/CD32a (H167) Protein

Cat. No. CDA-HM432



## Description

<b>Source</b>	Recombinant Human Fc gamma RIIA/CD32a (H167) Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Ala36-Ile218(H167).
<b>Accession</b>	P12318-1
<b>Molecular Weight</b>	The protein has a predicted MW of 23.2 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

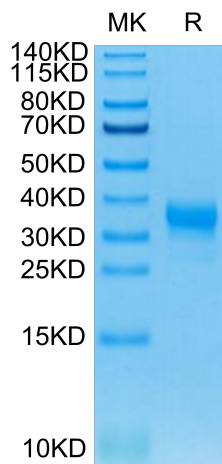
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid 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

### Tris-Bis PAGE



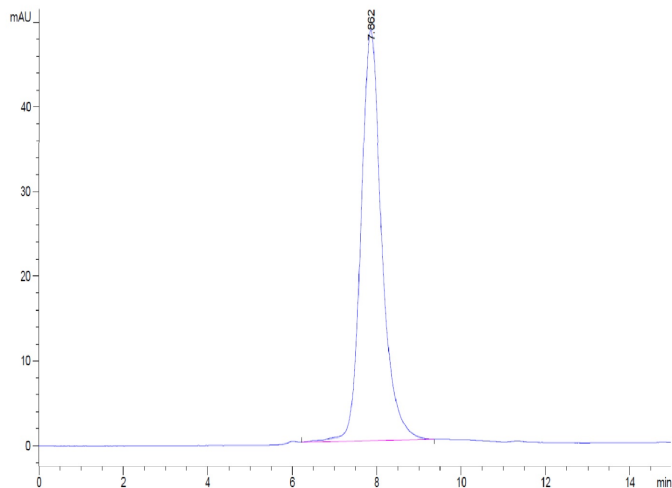
Human Fc gamma RIIA/CD32a (H167) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

# Human Fc gamma RIIA/CD32a (H167) Protein

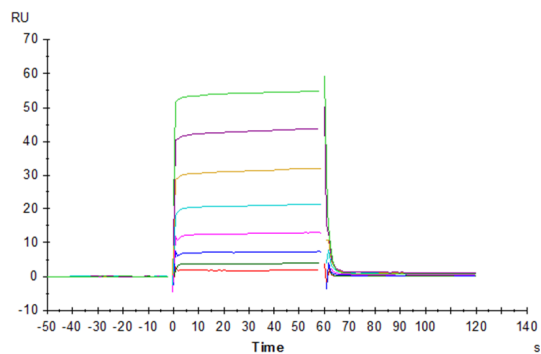
Cat. No. CDA-HM432

## Assay Data



The purity of Human Fc gamma RIIA/CD32a (H167) is greater than 95% as determined by SEC-HPLC.

## SPR Data



Rituximab captured on CM5 Chip via Protein A can bind Human Fc gamma RIIA (H167), His-Avi Tag with an affinity constant of 0.606  $\mu\text{M}$  as determined in SPR assay (Biacore T200).