

# Rat Fc gamma RI/CD64 Protein, Ultra Low Endotoxin

Cat. No. FRI-RM164-UL

## Description

<b>Source</b>	Recombinant Rat Fc gamma RI/CD64 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gln16-Pro285.
<b>Accession</b>	A0A0B4J2J0
<b>Molecular Weight</b>	The protein has a predicted MW of 31.86 kDa. Due to glycosylation, the protein migrates to 45-55 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

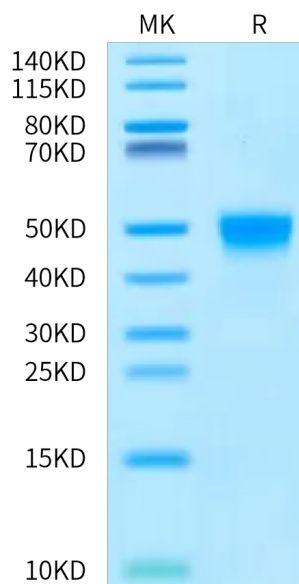
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage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

FcγRIII is a relatively new IgG Fc receptor (FcγRIII) that is reported to contribute to the pathogenesis of autoimmune diseases. FcγRIII and FcγRIII are each essential to trigger an Fcγ-linker for activation of T-cell-dependent signal that drives C5a production in the Arthus reaction. A combined requirement for FcγRIII and FcγRIII in autoimmune injury, and identify the linker for activation of T cells adaptor as an integral component of linked FcγRIII and C5a anaphylatoxin receptor activation to generate inflammation.

## Assay Data

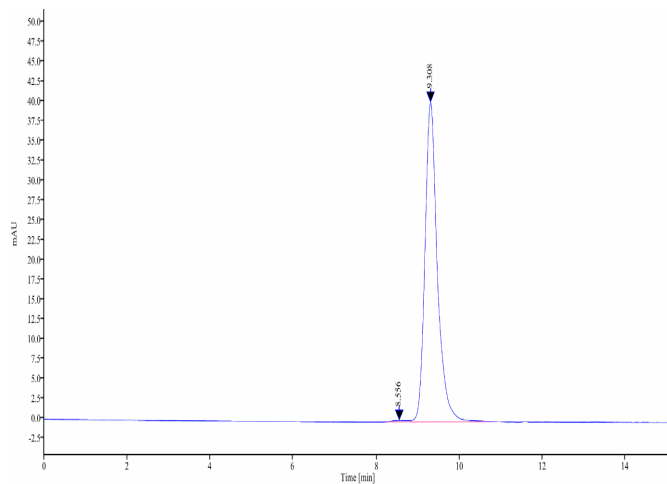
### Bis-Tris PAGE



Rat Fc gamma RI on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

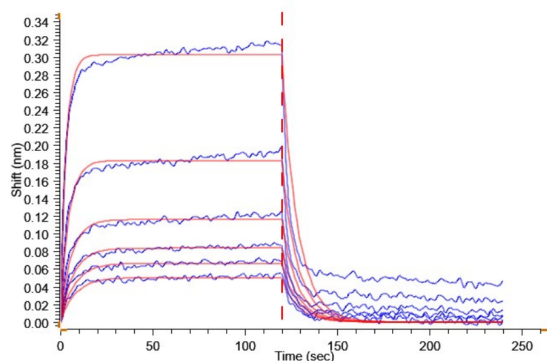
### SEC-HPLC

Assay Data



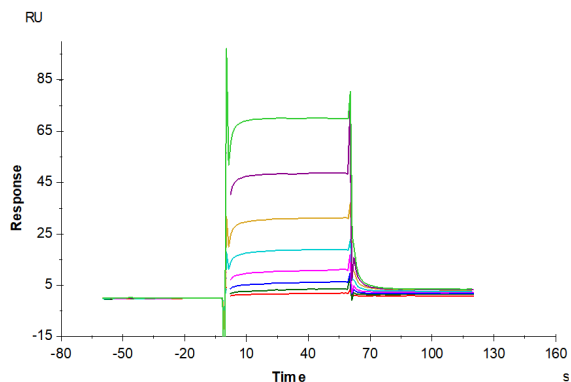
The purity of Rat Fc gamma RI is greater than 95% as determined by SEC-HPLC.

BLI Data



Loaded Rat Fc gamma RI, His Tag on Anti-His-Biosensor can bind Trastuzumab with an affinity constant of 0.11  $\mu\text{M}$  as determined in BLI assay .

SPR Data



Rat Fc gamma RI, His Tag captured on CM5 Chip via Anti-His Antibody can bind Trastuzumab with an affinity constant of 0.74  $\mu\text{M}$  as determined in SPR assay (Biacore T200).