

Rat Fc gamma RI/CD64 Protein

Cat. No. FRI-RM164



Description

Source	Recombinant Rat Fc gamma RI/CD64 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gln16-Pro285.
Accession	A0A0B4J2J0
Molecular Weight	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.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

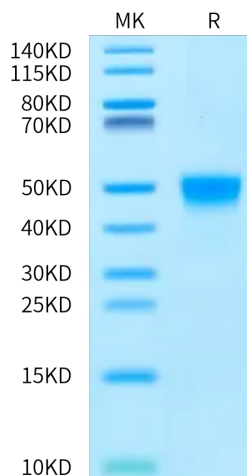
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

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

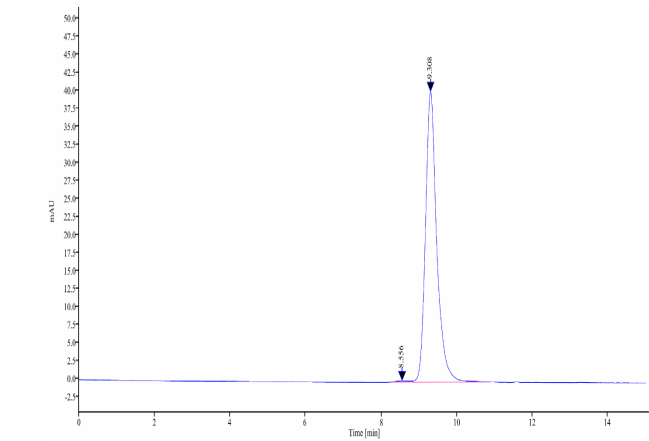
SEC-HPLC

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Assay Data



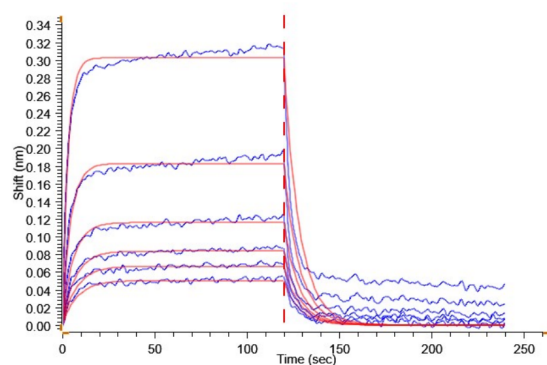
The purity of Rat Fc gamma RI is greater than 95% as determined by SEC-HPLC.

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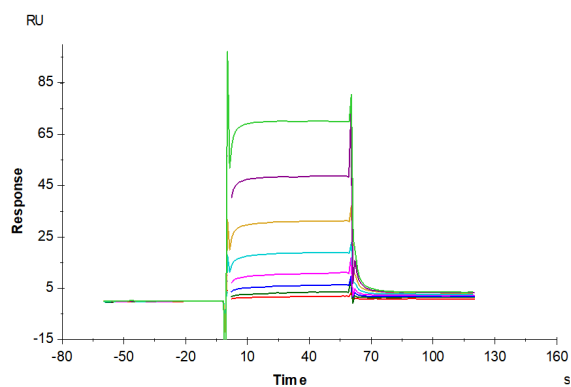
Assay Data

BLI Data



Loaded Rat Fc gamma RI, His Tag on Anti-His-Biosensor can bind Trastuzumab with an affinity constant of 0.11 μM as determined in BLI assay (Gator® Prime).

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 μM as determined in SPR assay (Biacore T200).