

Mouse Fc gamma RIV/CD16-2 Protein

Cat. No. FCR-MM162

Description

Source	Recombinant Mouse Fc gamma RIV/CD16-2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gly21-Gln203.
Accession	A0A0B4J1G0-1
Molecular Weight	The protein has a predicted MW of 22 kDa. Due to glycosylation, the protein migrates to 32-43 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

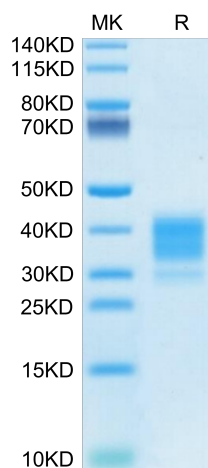
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled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

Background

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

Assay Data

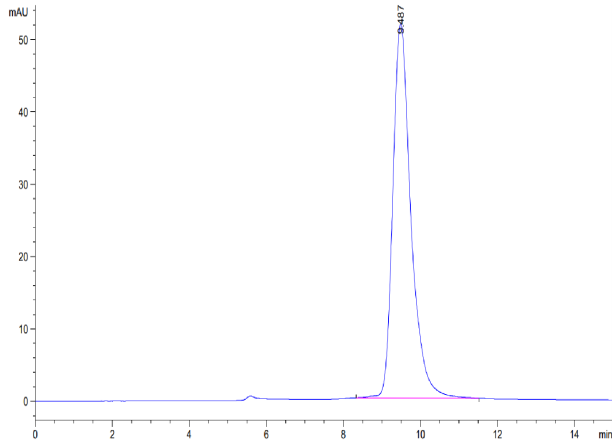
Tris-Bis PAGE



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

SEC-HPLC

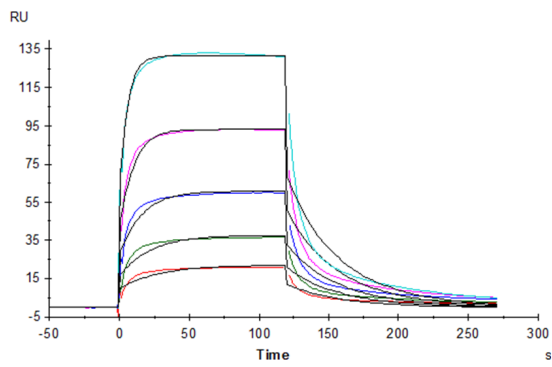
Assay Data



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

Assay Data

SPR Data



Mouse Fc gamma RIV, His Tag captured on CM5 Chip via anti-his antibody can bind Anti-CD3 Antibody with an affinity constant of 146 nM as determined in SPR assay (Biacore T200).