Human Fc gamma RIIA/CD32a (R167) Protein

Cat. No. FCR-HM124

Description

Source	Recombinant Human Fc gamma RIIA/CD32a (R167) Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Gln34-Ile218(R167).
Accession	P12318-1
Molecular Weight	The protein has a predicted MW of 22.14 kDa. Due to glycosylation, the protein migrates to 32-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

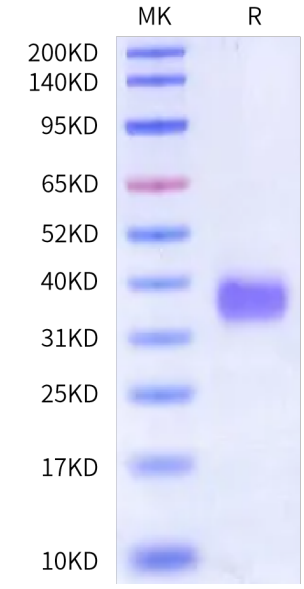
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

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. The CD64 proteins are high affinity receptors (~10e-8-10e-9 M) capable of binding monomeric IgG, whereas the CD16 and CD32 proteins bind IgG with lower affinities (~10e-6-10e-7 M) only recognizing IgG aggregates surrounding multivalent antigens.

Assay Data

Bis-Tris PAGE



Human Fc gamma RIIA (R167) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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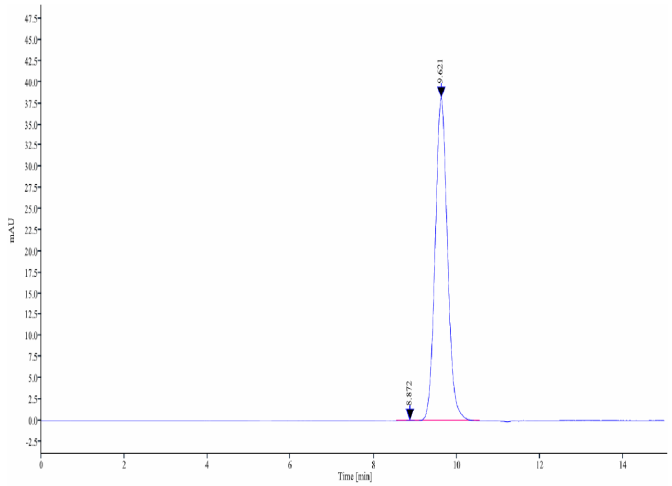
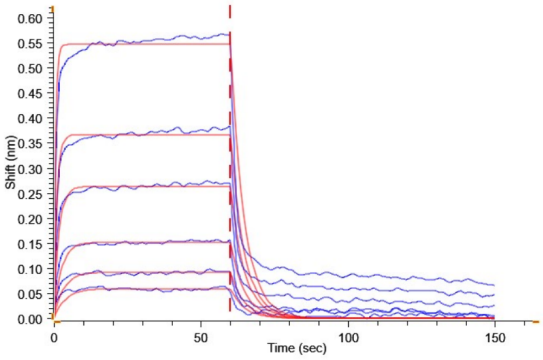
Assay Data



The purity of Human Fc gamma RIIA (R167) is greater than 95% as determined by SEC-HPLC.

BLI Data



Loaded Human Fc gamma RIIA (R167), His Tag on Anti-His-Biosensor can bind Rituximab with an affinity constant of 0.29 μM as determined in BLI assay .