Human Fc gamma RIIA/CD32a (H167) Protein

Cat. No. CDA-HM132

Description

Source	Recombinant Human Fc gamma RIIA/CD32a (H167) Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Gln34-Ile218(H167).
Accession	P12318-1
Molecular Weight	The protein has a predicted MW of 22.12 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

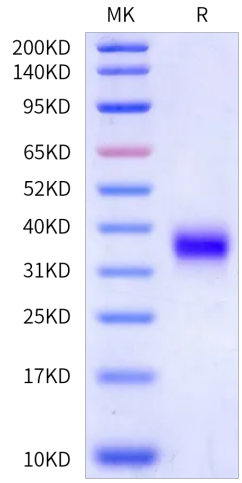
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

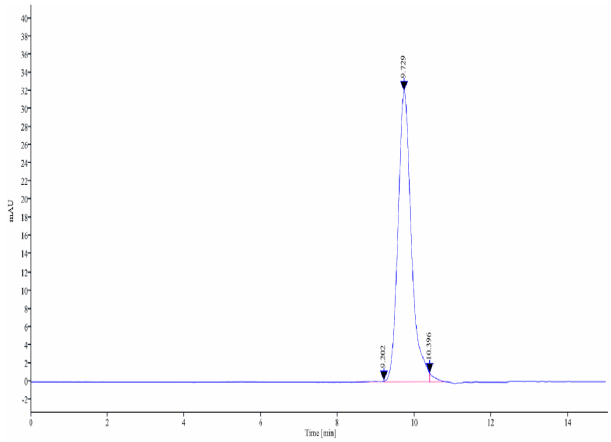
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

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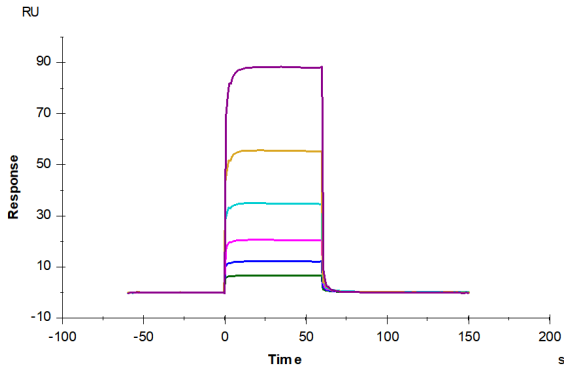
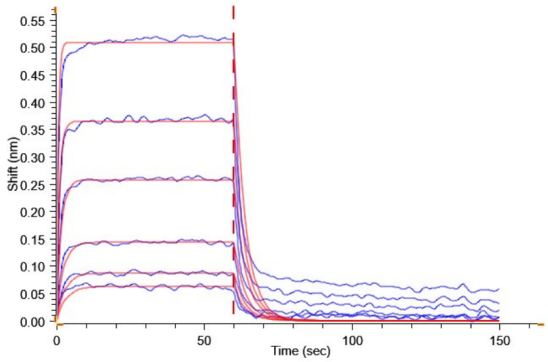
Assay Data

SPR Data



Human Fc gamma RIIA (H167), His Tag captured on CM5 Chip via Anti-His Antibody can bind Rituximab, hFc Tag with an affinity constant of 5.72 μM as determined in SPR assay (Biacore S200).

BLI Data



Loaded Human Fc gamma RIIA (H167), His Tag on Anti-His-Biosensor can bind Rituximab with an affinity constant of 0.36 μM as determined in BLI assay.