



Synonym

CD32a,FCGR2A,CD32,FCG2 ,FCGR2A1,IGFR2

Source

Biotinylated Human CD32a (R167), His,Avitag(CDA-H82E5) is expressed from human 293 cells (HEK293). It contains AA Ala 36 - Ile 218 (Accession # [P12318-1](#) (H167R)).

Predicted N-terminus: Ala 36

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 23.9 kDa. The protein migrates as 30-34 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

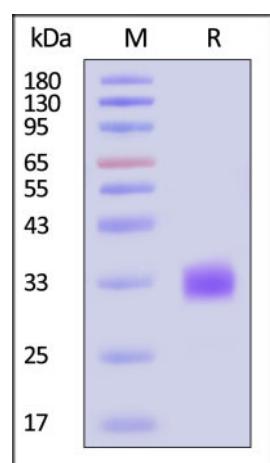
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

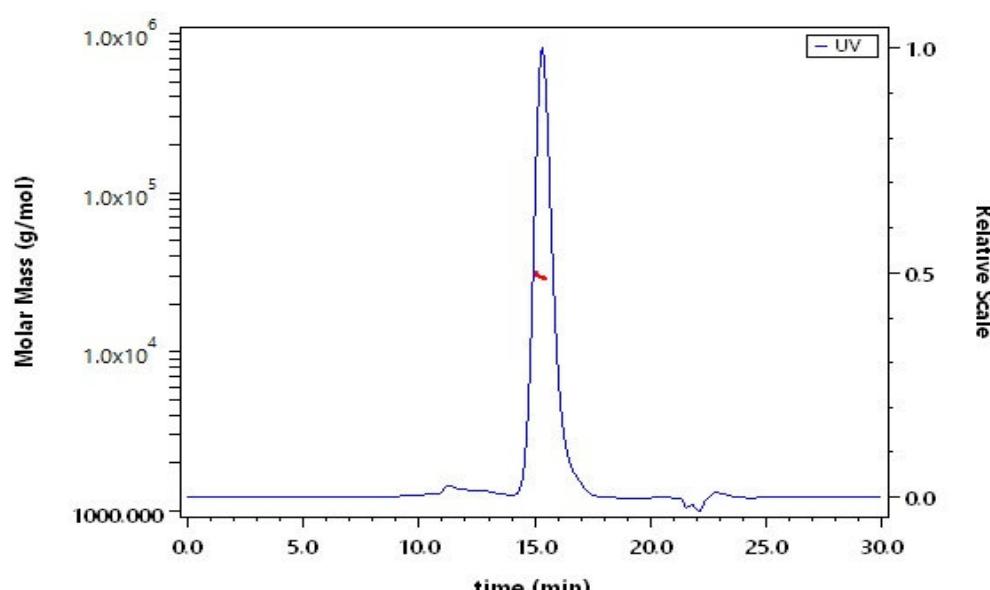
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human CD32a (R167), His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Human CD32a (R167), His,Avitag (Cat. No. CDA-H82E5) is more than 95% and the molecular weight of this protein is around 23-35 kDa verified by SEC-MALS.

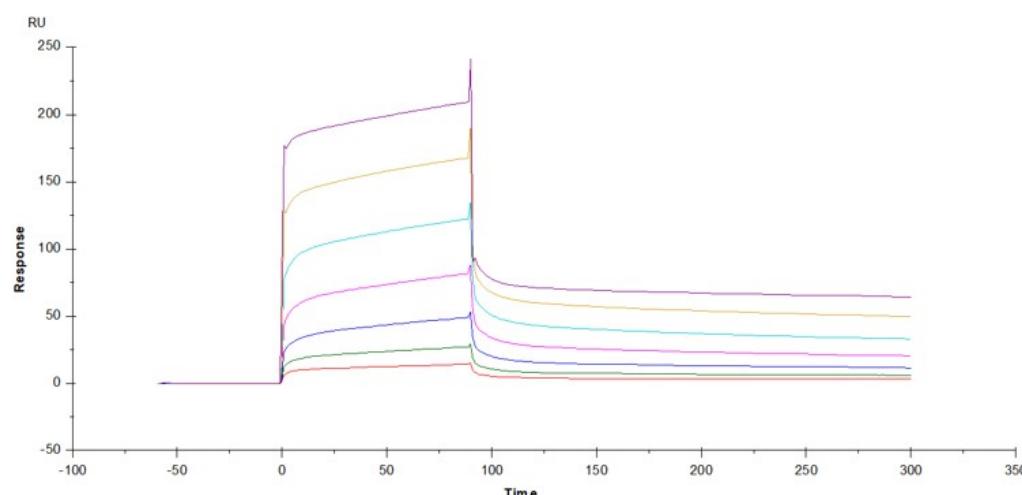
[Report](#)

Bioactivity-SPR

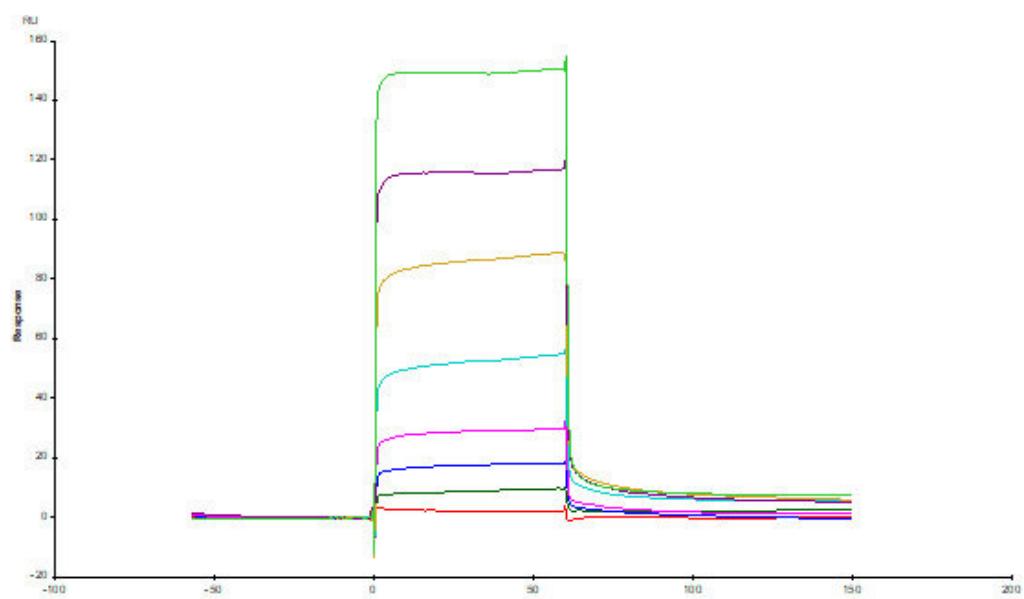
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Biotinylated Human Fc gamma RIIA / CD32a (R167) Protein, His,Avitag™ (MALS & SPR verified) (Cat. No. CDA-H82E5) captured on Biotin CAP-Series S Sensor Chip can bind Rituximab biosimilar (Cat. No. CD0-M36) with an affinity constant of $0.771 \mu\text{M}$ as determined in a SPR assay (Biacore T200) (QC tested).



Biotinylated Human CD32a (R167), His,Avitag (Cat. No. CDA-H82E5) immobilized on SA Chip can bind Rituximab with an affinity constant of $0.802 \mu\text{M}$ as determined in a SPR assay (Biacore T200) (Routinely tested).

Background

Receptors for the Fc region of IgG (Fc γ R) are members of the Ig superfamily that function in the activation or inhibition of immune responses. Three classes of human Fc γ Rs: RI (CD64), RII (CD32), and RIII (CD16), which generate multiple isoforms, are recognized. There are three genes for human Fc γ RII /CD32 (A, B, and C) and one for mouse Fc γ RII B (CD32B). CD32 is a low affinity receptor for IgG. The activating isoform, CD32A, is expressed on monocytes, neutrophils, platelets and dendritic cells. CD32A is expressed on many immune cell types (macrophage, neutrophil, eosinophils, platelets, dendritic cells and Langerhan cells), where inhibitory ITIMbearing receptors may also be coexpressed and coengaged by specific ligands. CD32A delivers an activating signal upon ligand binding, and results in the initiation of inflammatory responses including cytolysis, phagocytosis, degranulation and cytokine production. The responses can be modulated by signals from the coexpressed inhibitory receptors such as CD32B, and the strength of the signal is dependent on the ratio of expression of the activating and inhibitory receptors.

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