



### Synonym

CD32a,FCGR2A,CD32,FCG2 ,FCGR2A1,IGFR2

### Source

Rat CD32a, His Tag(CDA-R52H5) is expressed from human 293 cells (HEK293). It contains AA Gln 34 - Leu 216 (Accession # [M0R4F7-1](#)).

Predicted N-terminus: Gln 34

### Molecular Characterization

CD32a(Gln 34 - Leu 216)	Poly-his
M0R4F7-1	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 22.3 kDa. The protein migrates as 35-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

### Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22  $\mu$ m 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

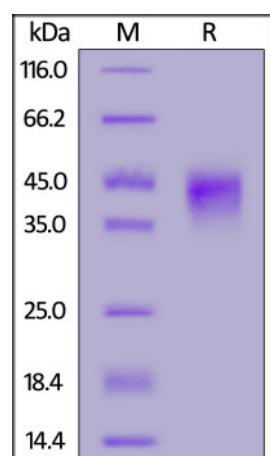
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

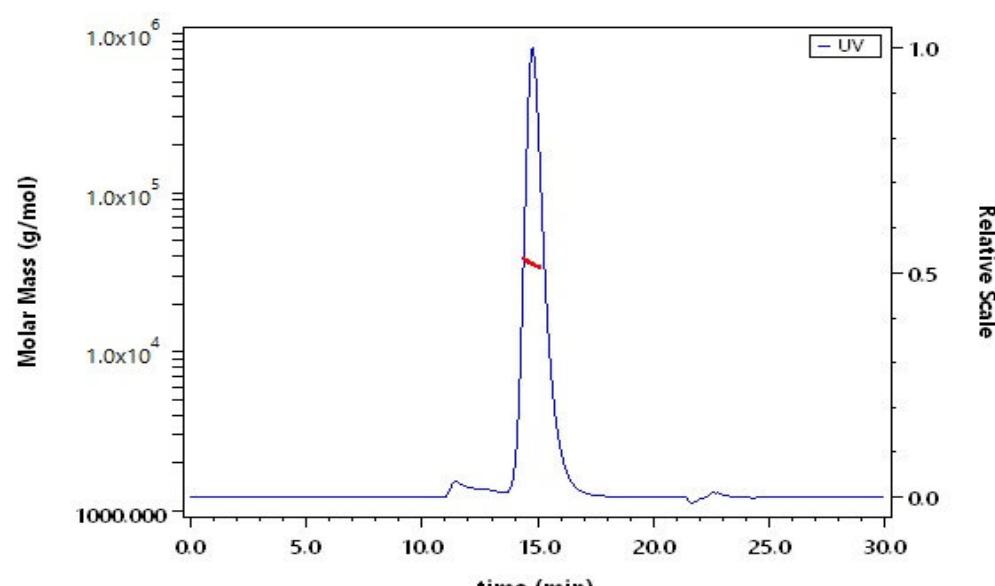
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 12 months under sterile conditions after reconstitution.

### SDS-PAGE



Rat CD32a, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

### SEC-MALS



The purity of Rat CD32a, His Tag (Cat. No. CDA-R52H5) is more than 95% and the molecular weight of this protein is around 30-40 kDa verified by SEC-MALS.

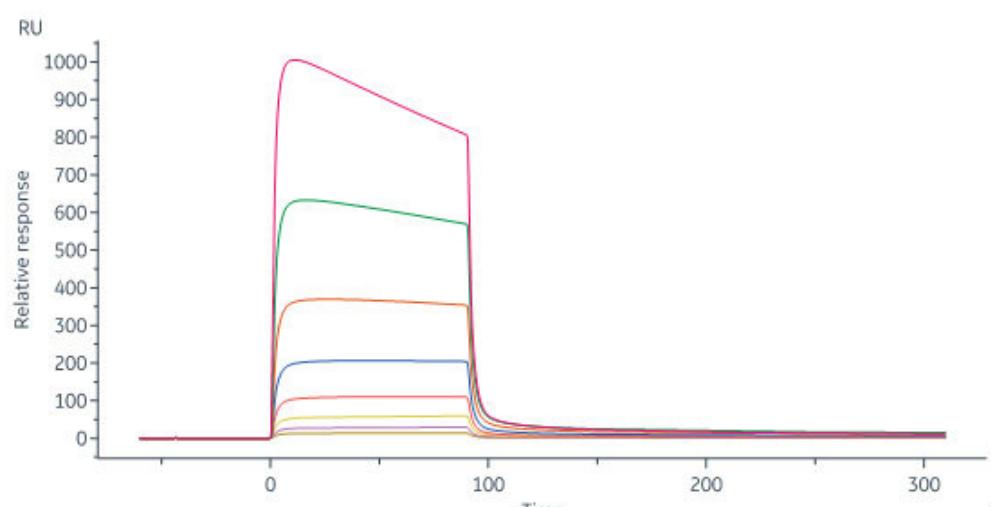
[Report](#)

### Bioactivity-SPR

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Rat CD32a, His Tag (Cat. No. CDA-R52H5) captured on NTA-Series S sensor chip can bind Rituximab with an affinity constant of 15.1  $\mu$ M as determined in a SPR assay (Biacore 8K) (QC tested).

## Background

Receptors for the Fc region of IgG (Fc  $\gamma$  R) are members of the Ig superfamily that function in the activation or inhibition of immune responses. Three classes of human Fc  $\gamma$  Rs: RI (CD64), RII (CD32), and RIII (CD16), which generate multiple isoforms, are recognized.

There are three genes for human Fc $\gamma$  RII /CD32 (A, B, and C) and one for mouse Fc $\gamma$  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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