

# Mouse Fc gamma RIV / CD16-2 Protein, His Tag (MALS verified)

Catalog # FC4-M52H3



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

Fc gamma RIV,CD16-2,Fcgr4

## Source

Mouse CD16-2, His Tag(FC4-M52H3) is expressed from human 293 cells (HEK293). It contains AA Gly 21 - Gln 203 (Accession # [A0A0B4J1G0-1](#)).

Predicted N-terminus: Gly 21

## Molecular Characterization

CD16-2(Gly 21 - Gln 203)  
A0A0B4J1G0-1 Poly-his

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

The protein has a calculated MW of 22.8 kDa. The protein migrates as 30-38 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

>90% 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

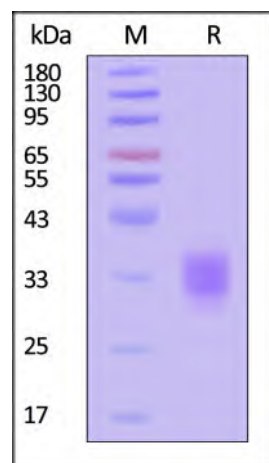
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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 12 months under sterile conditions after reconstitution.

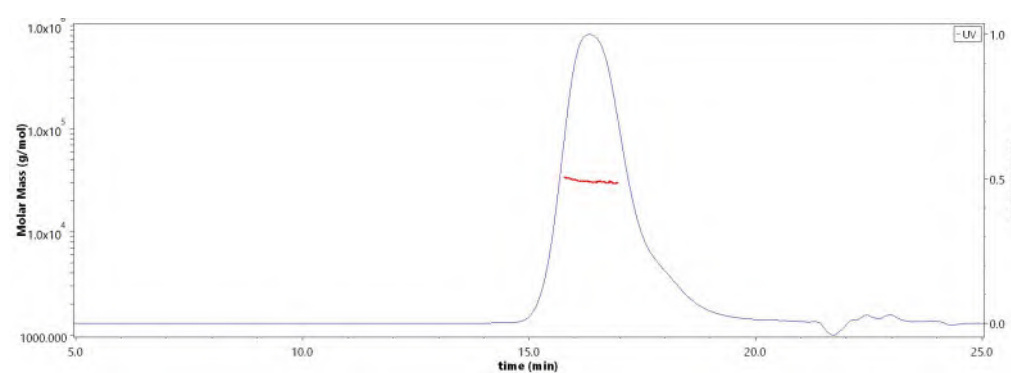
## SDS-PAGE



Mouse CD16-2, 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-SPR

## SEC-MALS



The purity of Mouse CD16-2, His Tag (Cat. No. FC4-M52H3) is more than 90% and the molecular weight of this protein is around 25-35 kDa verified by SEC-MALS.

[Report](#)

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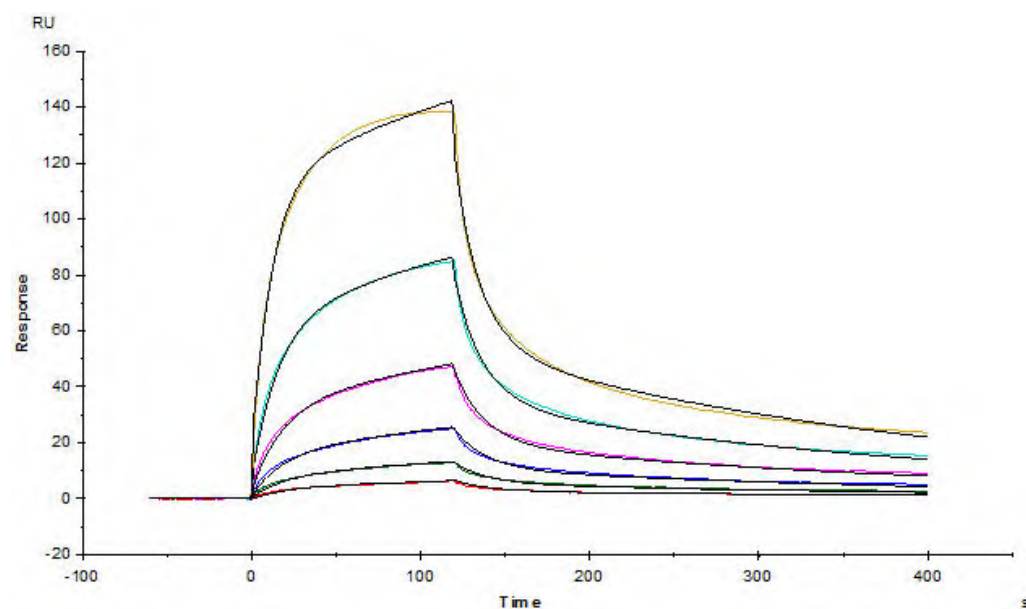
3/21/2025

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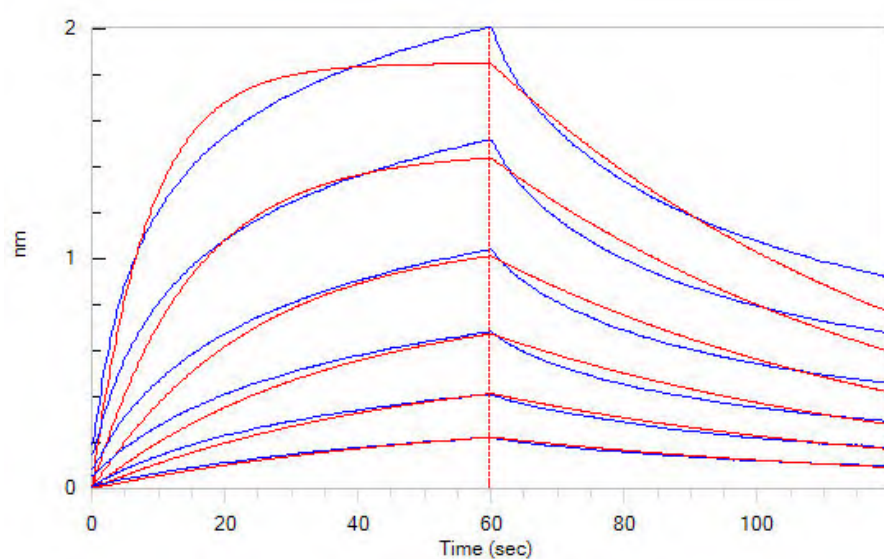


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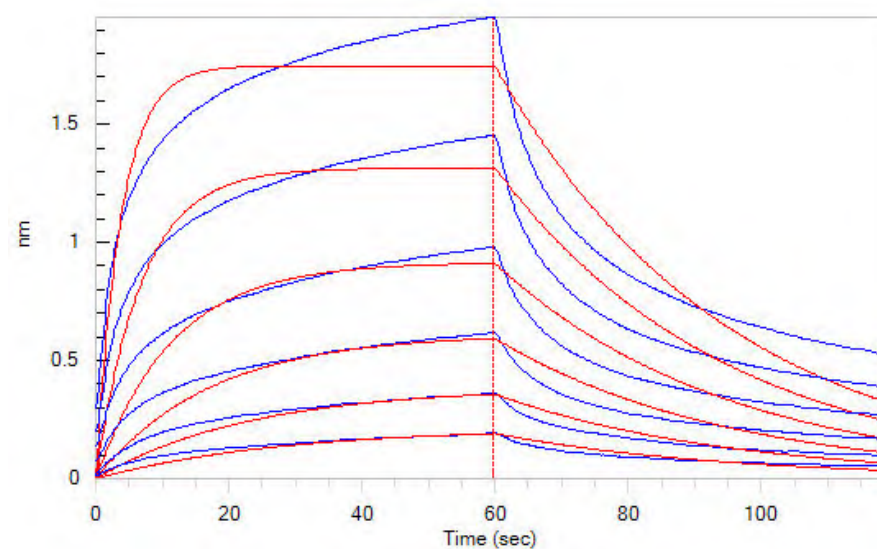


Captured Mouse CD16-2, His Tag (Cat. No. FC4-M52H3) on NTA-Series S sensor chip can bind OKT3 with an affinity constant of 154 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

### Bioactivity-BLI



Loaded Mouse CD16-2, His Tag (Cat. No. FC4-M52H3) on NTA Biosensor, can bind OKT3 with an affinity constant of 140 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Mouse CD16-2, His Tag (Cat. No. FC4-M52H3) on NTA Biosensor, can bind Herceptin with an affinity constant of 122 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

### Background

FcγR4 (Low affinity immunoglobulin gamma Fc region receptor IV) is also known as CD16-2, FcγRIV, receptor for the Fc region of immunoglobulin gamma. Also acts as a receptor for the Fc region of immunoglobulin epsilon. Binds with intermediate affinity to both IgG2a and IgG2b. Does not display binding to IgG1 or IgG3. Plays a role in promoting bone resorption by enhancing osteoclast differentiation following binding to IgG2a. Binds with low affinity to both the a and b allotypes of IgE. Has also been shown to bind to IgE allotype a only but not to allotype b. Binding to IgE promotes macrophage-mediated phagocytosis, antigen presentation to T cells, production of proinflammatory cytokines and the late phase of cutaneous allergic reactions

### Clinical and Translational Updates

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