



Application

- Immunization
- Cell based assay (FACS or functional assay)
- Affinity testing ([SPR](#) / [BLI](#))
- Screening ([ELISA](#))

Synonym

MS4A1, CD20, MS4A-1

Source

Nanodisc-pro Biotinylated Cynomolgus CD20 Full Length Protein, His,Avitag (CD0-C82E4) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Pro 297 (Accession # [M4ZHZ6-1](#)).

Predicted N-terminus: Met 1

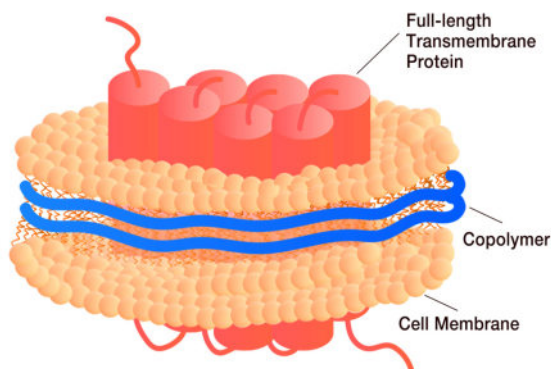
Molecular Characterization

CD20(Met 1 - Pro 297) M4ZHZ6-1	Poly-his	Avi
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This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

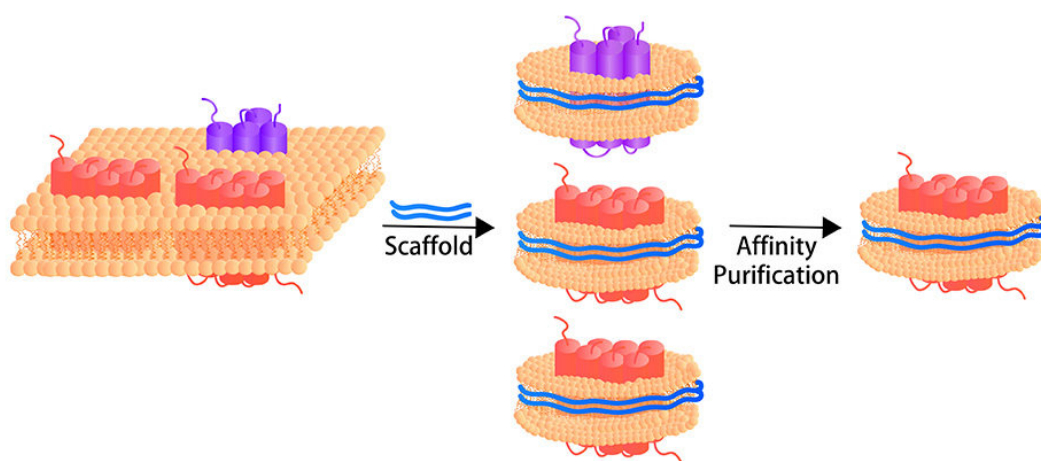
The protein has a calculated MW of 36.9 kDa. The protein migrates as 24-25 kDa and 40-41 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

• Structure



Nanodisc-pro membrane protein is wrapped by a piece of cell membrane and copolymer.

• Synthesis Process



Nanodisc-pro membrane protein extraction is a gentle, non-disruptive process that **directly isolates full-length transmembrane proteins together with their surrounding native phospholipids from cellular membranes**, without breaking or disturbing the original membrane structure. This preserves the membrane protein's natural conformational landscape and native lipid environment, yielding stable nanodisc that retain cellular phospholipids and eliminate the need for detergent solubilization, with fully preserved biological activity—making them **ideal for cell-based assays such as FACS** and binding assays in antibody discovery and screening (ELISA), etc.

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

>80% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

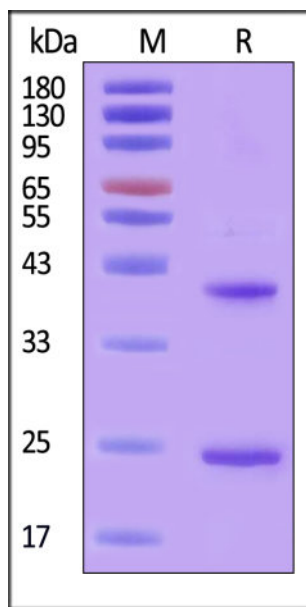
- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

*The isotype control of empty/mock nanodisc (Cat. No. [APO-H5143](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

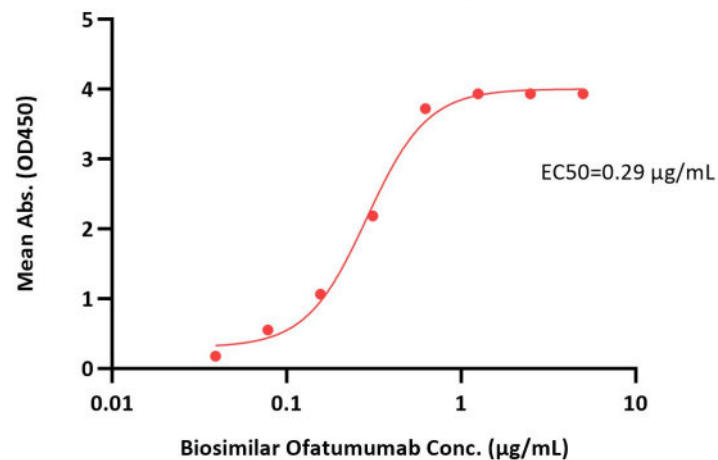
SDS-PAGE



Biotinylated Cynomolgus CD20 Full Length Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 80% (With [Star Ribbon Pre-stained Protein Marker](#)).

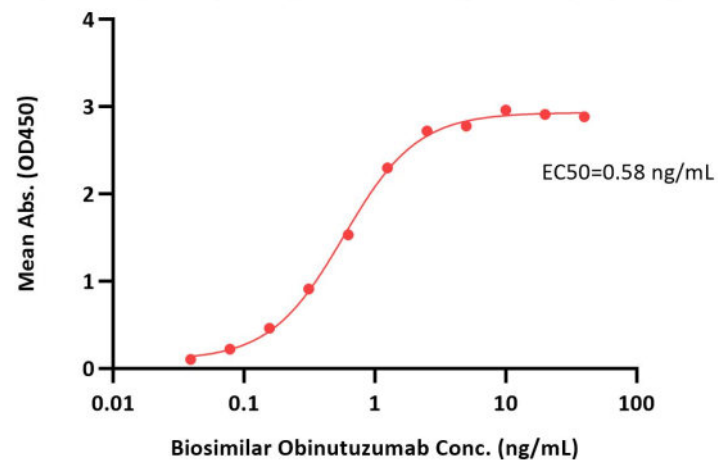
Bioactivity-ELISA

Biotinylated Cynomolgus CD20 Full Length Protein, His,Avitag ELISA
0.1 µg of Biotinylated Cynomolgus CD20 Full Length Protein, His,Avitag per well



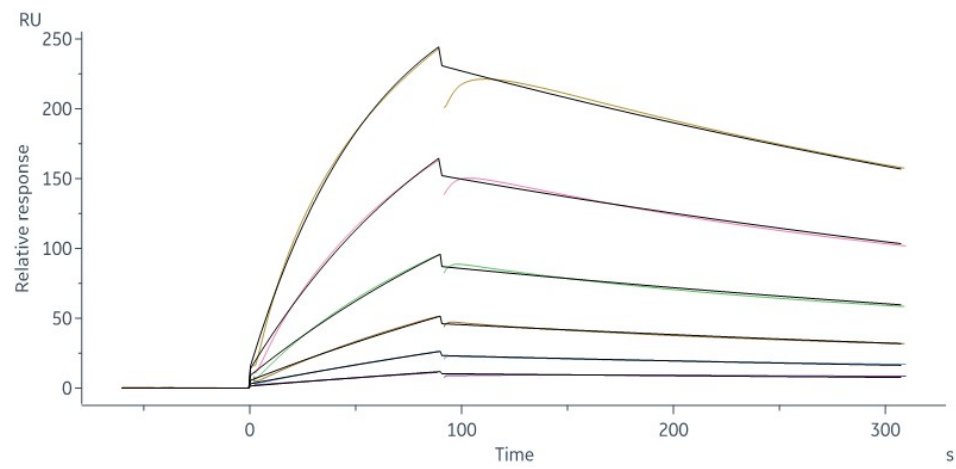
Immobilized Biotinylated Cynomolgus CD20 Full Length Protein, His,Avitag (Cat. No. CD0-C82E4) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Biosimilar Ofatumumab with a linear range of 0.039-0.625 µg/mL (QC tested).

Biotinylated Cynomolgus CD20 Full Length Protein, His,Avitag ELISA
0.1 µg of Biotinylated Cynomolgus CD20 Full Length Protein, His,Avitag per well



Immobilized Biotinylated Cynomolgus CD20 Full Length Protein, His,Avitag (Cat. No. CD0-C82E4) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Biosimilar Obinutuzumab with a linear range of 0.04-1 ng/mL (Routinely tested).

Bioactivity-SPR



Rituximab biosimilar (Cat. No. CD0-M36) captured on Protein A Chip can bind Biotinylated Cynomolgus CD20 Full Length Protein, His, Avitag (Cat. No. CD0-C82E4) with an affinity constant of 22 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

A B-lymphocyte surface antigen expressed from pre-B to mature B cells, but absent on plasma cells. It functions as a calcium channel and is a validated immunotherapy target, famously exploited by rituximab for treating B-cell malignancies and autoimmune disorders.

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