

Human CD20 / MS4A1 Protein, Llama IgG2b Fc Tag (HPLC & SPR verified)

Catalog # CD0-H5254



Synonyms

MS4A1, CD20, MS4A-1

Source

Human CD20 Protein, Llama IgG2b Fc Tag (CD0-H5254) is expressed from human 293 cells (HEK293). It contains AA Lys 142 - Ser 188 (Accession # [P11836-1](#)).

Predicted N-terminus: Glu

Molecular Characterization

LlamaFc(Glu 1 - Ser 243) AAX73259.1	CD20(Lys 142 - Ser 188) P11836-1
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This protein carries a llama IgG2b Fc tag at the N-terminus.

The protein has a calculated MW of 33.3 kDa. The protein migrates as 40-45 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.05 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

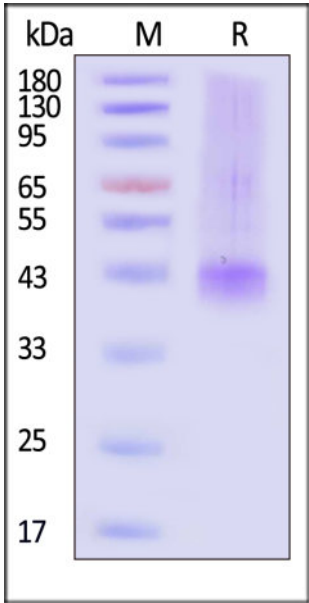
This product is stable after storage at:

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

ACRO Quality Management System

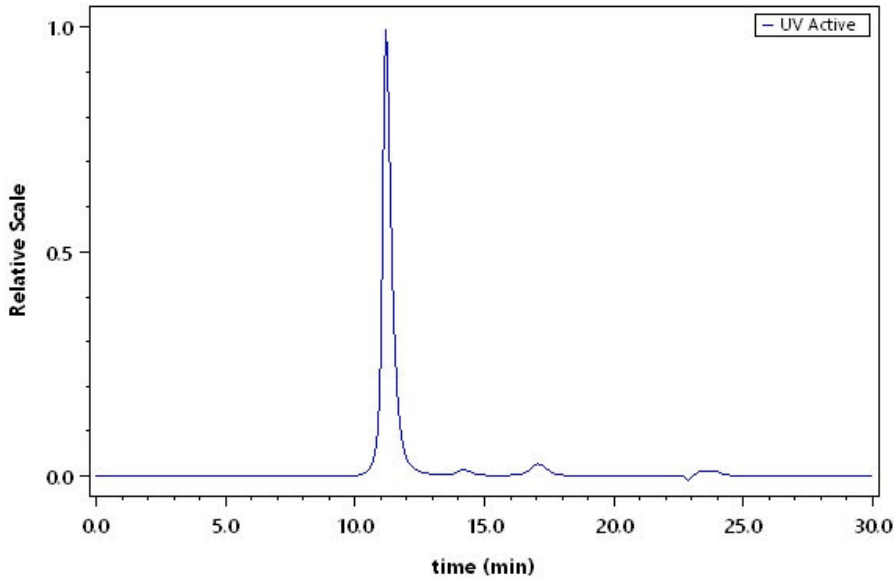
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



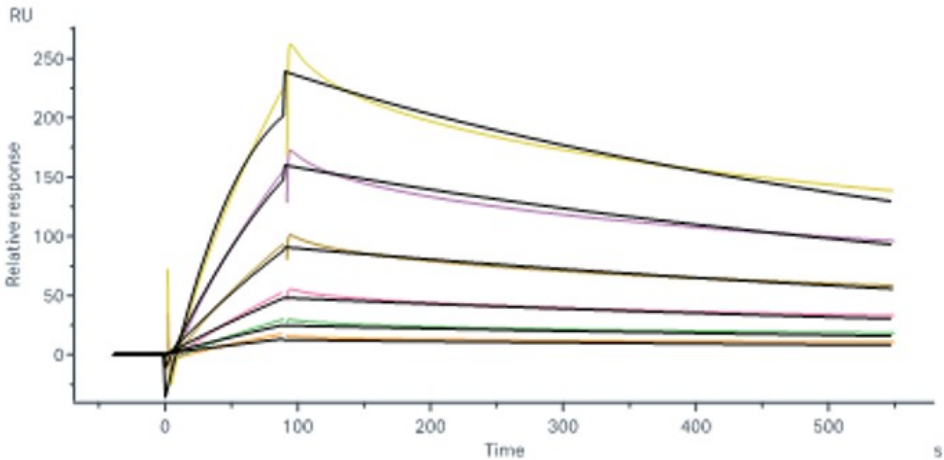
Human CD20 Protein, Llama IgG2b Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-HPLC



The purity of Human CD20 Protein, Llama IgG2b Fc Tag (Cat. No. CD0-H5254) was greater than 90% as determined by SEC-HPLC.

Bioactivity-SPR



Obinutuzumab Biosimilar immobilized on CM5 Chip can bind Human CD20 Protein, Llama IgG2b Fc Tag (Cat. No. CD0-H5254) with an affinity constant of 691 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

CD20 is 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. This product is a truncated CD20 sequence.

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