# C010P.m1: Rituximab Biosimilar, Mouse IgG1

**Catalog No.:** C010P.m1 | **Product Name:** Rituximab Biosimilar, Mouse IgG1

Rituximab Biosimilar, Mouse IgG1. The research grade rituximab biosimilar protein is for research use only (RUO). Recombinant human IgG1 isotype controls are available. Rituximab biosimilar CHO stable cell line is available for licensing to manufacture the rituximab biosimilar protein.

## PRODUCT SPECIFICATIONS

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| **Catalog No.** | C010P.m1 |
| **Product Name** | Rituximab Biosimilar, Mouse IgG1 |
| **Supplier Name** | Syd Labs, Inc. |
| **Brand Name** | Syd Labs |
| **Synonyms** | Anti-CD20 Chimeric Monoclonal Antibody |
| **Summary** | Recombinant Humanized IgG1 Monoclonal Antibody. |
| **Isotype** | Mouse IgG1 kappa |
| **Source/Host** | The monoclonal antibody rituximab biosimilar was produced in the Rituximab biosimilar CHO stable cell line. |
| **Specificity/Sensitivity** | The monoclonal antibody rituximab biosimilar specifically binds to the human TNF alpha. |
| **Applications** | ELISA, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways affected by rituximab. |
| **Form Of Antibody** | 0.2 μM filtered solution, pH 6.5, no stabilizers or preservatives. |
| **Endotoxin** | < 1 EU per 1 mg of the protein by the LAL method. |
| **Purity** | >95% by SDS-PAGE under reducing conditions and HPLC. |
| **Shipping** | The Rituximab Biosimilar, Mouse IgG1 is shipped with ice pack. Upon receipt, store it immediately at the temperature recommended below. |
| **Stability & Storage** | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month from date of receipt, 2 to 8°C as supplied. |
| **Note** | The research grade rituximab biosimilar protein is for research use only (RUO). Recombinant human IgG1 isotype controls are available. Rituximab biosimilar CHO stable cell line is available for licensing to manufacture the rituximab biosimilar protein. |

## REFERENCES & BACKGROUND

B-lymphocyte antigen CD20 encoded by the MS4A1 gene is an activated-glycosylated phosphoprotein on the surface of all B-cells. The function of the membrane protein is to stimulate B-cell immune response, specifically against T-independent antigens though its natural ligand remains unknown. CD20 is important for the development and differentiation of B-cells into plasma cells.

Rituximab, a chimeric anti-CD20 monoclonal antibody, destroys B cells and is used to treat diseases with excessive numbers of B cells, overactive B cells, or dysfunctional B cells, such as many lymphomas, leukemias, transplant rejection, and autoimmune disorders. The Mouse IgG1 variant allows investigators to utilize murine effector mechanisms or perform comparative evaluations in mouse model systems.