Product Data Sheet

Proteins

Rituximab (anti-CD20)

Cat. No.: HY-P9913A CAS No.: 174722-31-7 Molecular Weight: 144544.44 Target: CD20

Pathway: Immunology/Inflammation

Storage: $\label{product} Please store the product under the recommended conditions in the Certificate of Analysis.$

BIOLOGICAL ACTIVITY

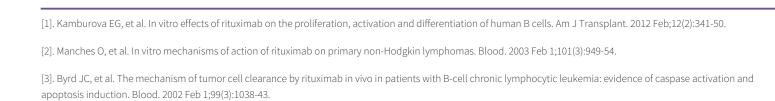
BIOLOGICAL ACTIVITY									
Description	Rituximab (anti-CD20) is an anti-CD20 chimeric monoclonal antibody used to treat certain autoimmune diseases and types of cancer $^{[1]}$.								
In Vitro	Rituximab (anti-CD20) inhibits the proliferation of stimulated human B cells, which is associated with a relative increase of B cells with an activated naive phenotype. Aside from this population shift, there are no major changes in phenotype or cytokine profile of the various B-cell subsets. B cells stimulated in the presence of rituximab induces stronger T-cell proliferation, compared to B cells stimulated in the absence of rituximab ^[1] . All lymphoma cells tested are equally sensitive to antibody-dependent cell-mediated cytotoxicity (ADCC), antibody-mediated phagocytosis of tumor cells, and rituximab-induced apoptosis. Rituximab (anti-CD20) induces high CDC killing of follicular lymphoma cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	A single injection of rituximab or the murine anti-CD20 Ab 1F5, given i.p. 1 day after the tumor, cures 100% of the animals. Depletion of either NK cells or neutrophils or both in tumor-injected animals does not affect the therapeutic activity of the drug. Similarly, rituximab is able to eradicate tumor cells in athymic nude mice, suggesting that its activity is T cell independent ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								

CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2020 Sep 14;5(1):200.
- Anal Chem. 2023 Apr 13.
- Anal Chim Acta. 2021, 338306.
- Cancer Biol Med. 2020 Nov 15;17(4):1026-1038.
- J Immunol Methods. 2023 Aug 29;113552.

See more customer validations on $\underline{www.MedChemExpress.com}$

			Е			



 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

Tel: 609-228-6898 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 2 www.MedChemExpress.com