

Rituximab

Chemical Properties

CAS No. : 174722-31-7

Formula:

Molecular Weight: 143.47 kDa

Storage: Store at low temperature
-20°C for 1 year

Actual storage temperature shall be subject to the COA.

Rituximab

Biological Description

Description	Rituximab is an anti-CD20 chimeric monoclonal antibody used to study certain autoimmune diseases and cancers.
Targets(IC50)	Others, Immunology/Inflammation related
In vitro	METHODS: B cells were treated with 0, 2.5, 5 and 10 µg/mL Rituximab to observe the effect of Rituximab on B cell proliferation. RESULTS There was an optimal inhibition of B cell proliferation at a concentration of 5 µg/mL. [1]
In vivo	METHODS: 100 mg of Rituximab was administered over 4 h. Rituximab was then infused in a regimen of 3 weekly infusions for 4 weeks, and caspase-3 and PARP expression and protein hydrolysis processes were examined in patients. RESULTS Rituximab induced cleavage of caspase-3, followed by the appearance of a 17-kd cleavage product corresponding to the large subunit of the catalytically active protease, and cleavage of PARP, a known substrate of cysteine asparaginase, was also detected. [2]
Cell Research	Objective: Complement-mediated cell lysis. Concentrations: 0, 0.02, 0.2, 2, 20 µg/mL. Incubation Time: 2 h. Method: Lymphoma B cells were purified from lymph node biopsies of patients with B-cell lymphoma. Rituximab was added to tumor cells (1×10 ⁶ /mL) in complete medium supplemented by human serum, inactivated or not by incubation at 56°C for 30 minutes. After 2 hours at 37°C, cell lysis was determined by PI staining of cells and analysis by flow cytometry.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.007 mL	0.0349 mL	0.0697 mL
5 mM	0.0014 mL	0.007 mL	0.0139 mL
10 mM	0.0007 mL	0.0035 mL	0.007 mL
50 mM	0.0001 mL	0.0007 mL	0.0014 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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