

Adalimumab

Chemical Properties

CAS No. : 331731-18-1

Formula:

Molecular Weight: 145.4 kDa

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

Actual storage temperature shall be subject to the COA.

Adalimumab

Biological Description

Description	Adalimumab (anti-TNF-alpha) is the first fully human recombinant IgG1 monoclonal antibody that specifically targets human TNF-alpha.
Targets(IC50)	Antibacterial,TNF
In vitro	<p>METHODS: ARPE cells were co-cultured with MT2, TL-Om1 or Jurkat cells and treated with Adalimumab (0.1-10 µg/mL) for 48 h. Supernatants were extracted to measure the levels of inflammatory cytokines using CBA human inflammation cytokine kits.</p> <p>RESULTS: The levels of IL-6, IL-10 and IL-8 production did not change with the addition of Adalimumab. adalimumab decreased tumor necrosis factor (TNF) secretion in a concentration-dependent manner, and TNF was not detected at Adalimumab ≥1.0 µg/mL.[1]</p> <p>METHODS: CD4+ T cells were treated with Adalimumab (1 µg/mL) and aCD3/CD28 mAb for 3 days, then stimulated with PMA/ionomycin in the presence of GolgiStop for 3 h. IL-10 expression was detected using mass spectrometry cytometry (CyTOF).</p> <p>RESULTS: Adalimumab treatment resulted in the induction of IL-10 in multiple CD4+ T cell subsets. [2]</p>
In vivo	<p>METHODS: To study the effects on the human autosomal recessive RP mouse model, Adalimumab (3 mg/kg) was administered intraperitoneally to rd10 mice, a human autosomal recessive retinitis pigmentosa model, every three days for nine days.</p> <p>RESULTS: Adalimumab reduced photoreceptor cell death by scoring the number of TUNEL-positive cells. adalimumab also improved the antioxidant response by restoring total antioxidant capacity and superoxide dismutase activity. adalimumab normalized the energy and metabolism patterns in the retina of rd10 mice. [3]</p>
Cell Research	Objective: Adalimumab induces apoptosis of THP-1 cells. Concentrations: 10µg/mL. Incubation Time: 6, 12, 18, 24, 30 hours. Method: THP-1 cells (0.5×10 ⁶) were incubated with anti-FcRI mAb and anti-FcRII mAb, and then cultured with adalimumab, infliximab, hulgG or vehicle (PBS) alone as indicated. LPS (1µg/mL) was added in all culture conditions. Apoptosis was analyzed at different time points by staining with annexin V-FITC and propidium iodide, Apo2.7-PE-conjugated antibody, or 7AAD.
Animal Research	Objective: The distribution of certolizumab pegol, adalimumab, and infliximab in the inflamed paws of mice with collagen-induced arthritis. Formulation: PBS. Dosages: 2 mg/kg

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0069 mL	0.0344 mL	0.0688 mL
5 mM	0.0014 mL	0.0069 mL	0.0138 mL
10 mM	0.0007 mL	0.0034 mL	0.0069 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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