



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic)



## Adalimumab

## Chemical Properties

CAS No. : 331731-18-1

Formula:

Molecular Weight:

Appearance: no data available

Storage: store at low temperature  
store at -20°C

## 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)	TNF
In vitro	<p><b>METHODS:</b> 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><b>RESULTS:</b> 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><b>METHODS:</b> 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><b>RESULTS:</b> Adalimumab treatment resulted in the induction of IL-10 in multiple CD4+ T cell subsets. [2]</p>
In vivo	<p><b>METHODS:</b> 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><b>RESULTS:</b> 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 <sup>6</sup> ) 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

Reference

Lei A, Yu H, Lu S, et al. A second-generation M1-polarized CAR macrophage with antitumor efficacy. *Nature Immunology*. 2023: 1-15.

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Tel: 781-999-4286    E\_mail: [info@targetmol.com](mailto:info@targetmol.com)    Address: 36 Washington Street, Wellesley Hills, MA 02481