

Adalimumab

Chemical Properties

CAS No. : 331731-18-1
Formula:
Molecular Weight:
Appearance: Liquid
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
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

Solubility Information

Solubility	DMSO: Insoluble, H2O: 10 mM, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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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