

Etanercept

Chemical Properties

CAS No. : 185243-69-0

Formula:

Molecular Weight: 102.5 kDa

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

Actual storage temperature shall be subject to the COA.

Etanercept

Biological Description

Description	Etanercept is a fusion protein consisting of the soluble portion of the p75-tumor necrosis factor receptor (TNFR) and the Fc fragment of human IgG1 and is commonly used to treat patients with rheumatoid arthritis.[1]
Targets(IC50)	Antibacterial,TNF
In vitro	METHODS: CHLA-255 cells were co-cultured with human monocytes and treated with etanercept (10 µg/mL). TNF-α levels in the co-culture supernatant were measured by TNF-α ELISA; supernatant IL-6 levels were measured by ELISA. RESULTS Treatment of NB-monocyte co-cultures with etanercept blocked almost all sTNF-α and IL-6 production. Etanercept effectively disrupted the pro-tumorigenic mTNF-α/TNFR2 signaling axis between NB cells and monocytes, preventing NF-κB activation in both cell types. This reduced monocyte pro-tumorigenic cytokine production, ultimately leading to increased apoptosis and decreased proliferation of NB cells in vitro. [1]
In vivo	METHODS: Tumor-bearing mice were injected intraperitoneally with etanercept (5 mg/kg) twice a week. Tumor growth was measured by bioluminescence imaging. RESULTS Etanercept treatment reduced tumor growth by 30% (p<0.05). [1] METHODS: Etanercept (10 mg/kg/3 days, subcutaneous injection) or saline was administered in AIA rats for 3 weeks at the first signs of arthritis. Body weight and arthritis scores were monitored daily. RESULTS Etanercept significantly reduced arthritis scores (P < 0.001). [2]

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0098 mL	0.0488 mL	0.0976 mL
5 mM	0.002 mL	0.0098 mL	0.0195 mL
10 mM	0.001 mL	0.0049 mL	0.0098 mL
50 mM	0.0002 mL	0.001 mL	0.002 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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