

## Etanercept

Cat. No.:	HY-108847
CAS No.:	185243-69-0
Target:	TNF Receptor
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Etanercept, a dimeric fusion protein that binds TNF, acts as a TNF inhibitor. Etanercept competitively inhibits the binding of both TNF- $\alpha$ and TNF- $\beta$ to cell surface TNF receptors, rendering TNF biologically inactive. Etanercept shows efficacy against rheumatoid arthritis, juvenile idiopathic arthritis, and plaque psoriasis <sup>[1][2][3]</sup> .									
<b>IC<sub>50</sub> &amp; Target</b>	TNF- $\alpha$	TNF- $\beta$								
<b>In Vivo</b>	<p>Etanercept (10 mg/kg; s.c.; every 3 days for 3 weeks) significantly decreases the mean arthritis scores and radiological score [4].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Six-week-old male Lewis rats (adjuvant-induced arthritis (AIA) model)<sup>[4]</sup></td> </tr> <tr> <td>Dosage:</td> <td>10 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>S.c.; every 3 days for 3 weeks</td> </tr> <tr> <td>Result:</td> <td>Significantly decreased the mean arthritis scores; Significant decreased in radiological score at the end of the treatment period.</td> </tr> </table>		Animal Model:	Six-week-old male Lewis rats (adjuvant-induced arthritis (AIA) model) <sup>[4]</sup>	Dosage:	10 mg/kg	Administration:	S.c.; every 3 days for 3 weeks	Result:	Significantly decreased the mean arthritis scores; Significant decreased in radiological score at the end of the treatment period.
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### REFERENCES

- [1]. Goffe B, et al. Etanercept: An overview. *J Am Acad Dermatol.* 2003;49(2 Suppl):S105-S111.
- [2]. Goldenberg MM. Etanercept, a novel drug for the treatment of patients with severe, active rheumatoid arthritis. *Clin Ther.* 1999;21(1):75-2.
- [3]. Totson P, et al. Etanercept improves endothelial function via pleiotropic effects in rat adjuvant-induced arthritis. *Rheumatology (Oxford).* 2016;55(7):1308-1317.
- [4]. Haraoui B, et al. Etanercept in the treatment of rheumatoid arthritis. *Ther Clin Risk Manag.* 2007;3(1):99-105.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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