

**RMCM039**

Recombinant TNF beta (Tumor necrosis factor beta),  
Mouse ,AF



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5ug;20ug;100ug;500ug;

### Synonym/Alternative name(s):

TNFSF1B, Lymphotoxin-alpha (LT- $\alpha$ ), LTalpha, Ltx, TNF-be, TNFSF1, Tnf, Tnfb, Tnfsf, Tnfsf1b, Tnlg1e, hlb38, hlb382, lymph

### Activity:

Measure by its ability to induce cytotoxicity in L929 cells in the presence of vactinomycin D.  
The ED50 for this effect is <30 ng/mL.

### Protein Description:

TNF- $\beta$  works as a potential mediator in the inflammatory and immune process. It a component of the TNF family of ligands, and signals through TNFR1 and TNFR2. TNF- $\beta$  is secreted by activated T and B lymphocytes, and has similar function to TNF- $\alpha$ . In the same manner as TNF- $\alpha$ , TNF- $\beta$  is involved in the regulation of various biological processes, including cell proliferation, differentiation, apoptosis, lipid metabolism, coagulation, and neurotransmission. TNF- $\beta$  is generally released as a soluble polypeptide. In addition, lymphotoxin- $\beta$  can anchor TNF- $\beta$  to the cell surface and form heterotrimers in an effective manner. TNF- $\beta$  is cytotoxic to a wide range of tumor cells.

**Protein Accession :** P09225.1

**Gene ID :** 16992

### Expression Sequence:

LSGVRFSAAARTAHPLPQKHLTHGILKPA AHLVGYPSKQNSLLWRASDRAFLRHGFSLSNNSLLIPTSGLYFVYSQVVFSGESCSPRAIPTP  
IYLAHEVQLFSSQYPFHVPLLSAQKSVYPGLQGPWVRSMYQGAVFLLSKGDQLSTHTDQISHLHFSPSSVFFGAFAL with  
polyhistidine tag at the N-terminus.

**Fusion tag :** His-tag?at?the?N-terminus

**Species :** Mouse

**Reactivity :** Mouse

**Expression Host :** Escherichia coli

**Source :** E. coli

### Purity/method:

>98% as determined by SDS-PAGE. Ni-NTA chromatography

### Endotoxin level:

<0.1 EU per 1  $\mu$ g of the protein by the LAL method.

**Calculated Molecular Weight :** 19.36 kDa

### Formulation:

The protein was lyophilized from a solution containing 1X PBS, pH 8.0.

### Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

**Shipping :** Blue Ice

### Stability and Storage:

Lyophilized protein should be stored at -20°C for 1 year.

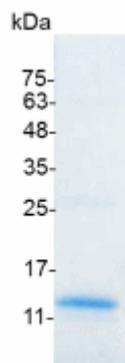
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

**Category :** Cytokines

**Application :** Cell culture, Elisa

**Image:**



SDS- PAGE analysis of recombinant mouse TNF  
beta