

## Mouse recombinant TNF beta (Tumor necrosis factor beta) protein, AF

Catalog Number: PROTP09225

### Overview

Product Name	Mouse recombinant TNF beta (Tumor necrosis factor beta) protein, AF
Description	Tumor Necrosis Factor Beta (TNF beta) or lymphotoxin-alpha (LT-alpha) is a 19 kDa tumor necrosis factor family protein with 171 amino acid residues. TNF beta is mainly expressed from lymphocytes, and mediates variety of inflammatory, immunostimulatory, and antiviral responses. TNF beta also involves development in secondary lymphoid organs. It is cytotoxic for different tumor cells in vitro and in vivo.
Size	5ug,20ug,100ug
Tag	His Tag (N-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

### 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. Avoid repeated freeze/thaw cycles.

### Purity

>98% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 19.36 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to induce cytotoxicity in L929 cells in the presence of vactinomycin D. The ED<sub>50</sub> for this effect is <30 ng/mL.

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### Amino Acid Sequence

LSGVRFSAAARTAHPLPQKHLTHGILKPA AHLVGYPSKQNSLLWRASTDRAFLRHGFSLSNNSLLIPTSGLYFVYSQVVFSGESCSPRAIPTPIYLAHEVQLFS  
SQYPFHVPLLSAQKSVYPGLQGPWVRS MYQGAVFLLSKGDQLSTHTDGISHLHFSPSSVFFGAFAL with polyhistidine tag at the N-terminus.

### Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Usage

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