

Human recombinant TNF beta (Tumor necrosis factor beta) protein, AF

Catalog Number: PROTP01374-6

Overview

Product Name	Human recombinant TNF beta (Tumor necrosis factor beta) protein, AF
Description	Human TNF beta (Lymphotoxin-alpha) is a 22 kDa cytokine with 205 amino acid residues. TNF beta belongs to tumor necrosis factor (TNF) superfamily as TNF alpha. Binding to lymphotoxin-beta receptor (LtbetaR), canonical and non-canonical NF-kappaB signal pathway will be activated. TNF beta is related to apoptosis and inflammatory signals
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 20 mM sodium citrate, 0.2 M NaCl, pH 3.5. 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 18.65 kDa. The protein migrates as 21 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED₅₀ for this effect is 3.3x 10⁻⁷ IU/mg.

Endotoxin

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

Amino Acid Sequence

LPGVGLTPSAAQTARQHPKMHLAHSTLKPAAHLIGDPSKQNSLLWRANTDRAFLQDGFSLNNSLLVPTSGIYFVYSQVVFSGKAYSPKATSSPLYLAHE
VQLFSSQYPFHVPLLSSQKMVYPGLQEPWLHSMYHGAAFQLTQGDQLSTHTDGIPHLVLPSTVFFGAFAL 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 H₂O 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

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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