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Human recombinant TNF alpha protein, GMP

Catalog Number: PROTP01375-9

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Overview

Product Name	Human recombinant TNF alpha protein, GMP
Description	Tumor necrosis factor alpha (TNF alpha) stimulates the acute phase of the immune response. In response to a pathogen, TNF alpha is one of the first to be released and can apply its effects in many organs. TNF alpha stimulates the release of corticotropic releasing hormone, suppresses appetite, and induces fever, in the hypothalamus. TNF increase vasodilation and loss of vascular permeability, it helps recruit lymphocyte, neutrophil, and monocyte to the inflammation site by regulating chemokine release.
Size	100ug,1mg
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	Lyophilized from a 0.2 um filtered solution of PBS, pH 8.0.

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

>97% as determined by SDS-PAGE analysis.

Molecular weight

The protein has a calculated MW of 20.37 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).

Activity

Testing in process

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Endotoxin

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

Amino Acid Sequence

A DNA sequence encoding Human TNF alpha(#P01375) (Val77-Leu233) was expressed with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved.

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Usage

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For Research Use Only. Not for use in diagnostic procedures.