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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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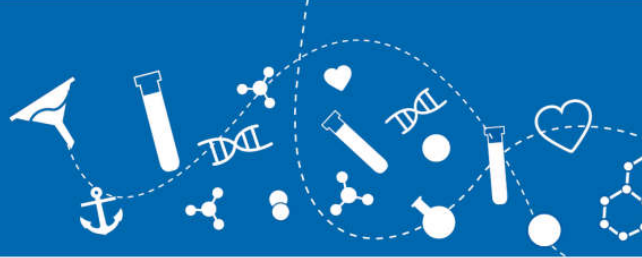
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Tumor Necrosis Factor-alpha, rabbit recombinant (rrbTNF-a)

Catalog No: 97580
Lot No: XXXXX
Source: *E. coli*
Synonyms: Tumor necrosis factor, Cachectin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, TNF, TNFA, TNFSF2

Background

Tumor necrosis factor is a cytokine involved in systemic inflammation and is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is mainly secreted by macrophages. TNF causes apoptotic cell death, cellular proliferation, differentiation, inflammation, tumorigenesis and viral replication, TNF is also involved in lipid metabolism, and coagulation. TNF's primary role is in the regulation of immune cells. Dysregulation and, in particular, overproduction of TNF have been implicated in a variety of human diseases- autoimmune diseases, insulin resistance, and cancer.

Description

Tumor Necrosis Factor-a rabbit recombinant consists of three identical polypeptide chains of 158 amino acids combined to form a compact, bell-shaped homotrimer. TNF-alpha was produced in *E. coli* is a non-glycosylated, polypeptide chain having a molecular mass of 17.4 kDa for the individual subunit. TNF-alpha is purified by standard chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

TNF-alpha rabbit was lyophilized after extensive dialysis against 20 mM PB, pH 7.4, 300 mM NaCl.

Solubility

It is recommended to reconstitute the lyophilized TNF-a in sterile 18 M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Tumor Necrosis Factor-a, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TNF-a should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

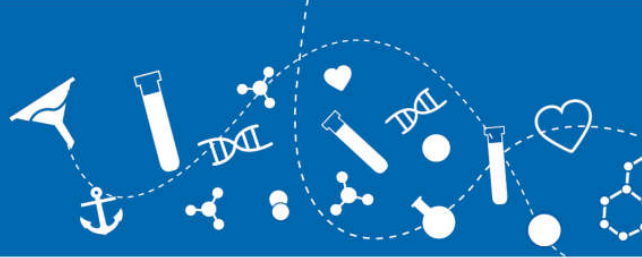
Greater than 95% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Ala-Ser-Arg.

Activity

The ED50 as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is less than 0.03 ng/ml, corresponding to a specific activity of 30,000,000 IU/mg.



Usage

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