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- Trockeneiszuschlag
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Tumor Necrosis Factor alpha, human recombinant (rHuTNF- α)

Catalog No: 50435

Lot No: XXXXX

Source: *E. coli*

Synonyms: TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF- α , Cachectin, DIF, 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- α human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 158 amino acids (157 amino acids of the mature human TNF-alpha and an N-terminal methionine) and having a molecular mass of 17.5 kDa. TNF-alpha is purified by standard chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

TNF-alpha Human was lyophilized from a concentrated 1 mg/ml solution containing 20 mM PB, pH-7.2, and 100 mM NaCl.

Solubility

It is recommended to reconstitute the lyophilized TNF- α 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- α , although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TNF- α 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 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

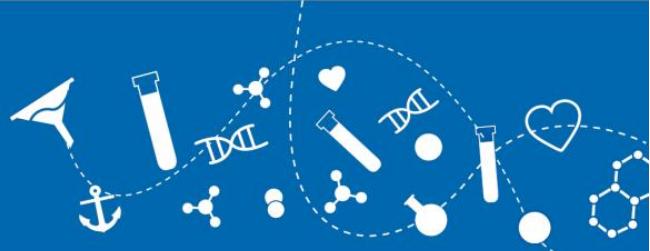
MVRSSSRTPS DKPVAVHVVAN PQAEGQLQWL NRRAANALLAN GVEILRDNQLV VPSEGLYLIY SQVLFKGQGC PSTHVLLTHT
ISRIAVSYQT KVNLLSAIKS PCQRETPEGA EAKPWFYEPPIY LGGVFQLEKG DRLSAEINRP DYLDFAESGQ VYFGIIAL

Activity

The specific activity is $\geq 5.0 \times 10^7$ IU/mg as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D.



SIE HABEN DIE VISION,
WIR HABEN DIE SUBSTANZ.



Usage

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