

Product: Tumor Necrosis Factor-alpha, Human, Recombinant
Catalog #: 11-TNF-AH
Amount: 20 µg

DESCRIPTION: Recombinant Human Tumor Necrosis Factor-alpha (rHuTNF-α)
rHuTNF-α is a single, non-glycosylated polypeptide chain containing 158 amino acids and having a molecular mass of 17483.77 Dalton
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Val-Arg-Ser-Ser.

SOURCE: *E.Coli* Expression System

PURITY: Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rHuTNF-α

DIMERS & AGREGATES: Less than 1% as determined by silver-stained SDS-PAGE gel analysis

FORM: Purified

PROTEIN CONTENT: Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 1.234 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences
2. Analysis by RP-HPLC, using a calibrated solution of human TNF-α as a Reference Standard.

STORAGE: -20°C (aliquot), avoid repeated freeze and thaw cycles.

BIOLOGICAL ACTIVITY: rHuTNF-α is fully biologically active when compared to standards
The ED50 as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is < 0.05ng/ml, corresponding to a Specific Activity of 2 x 10⁷ IU/mg

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