

## Human TNF-alpha

Synonyms: TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, Cachectin, DIF, TNFA, TNFSF2.

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order #	Lot #	Expiry Date
10 µg	1960.950.010		
50 µg	1960.950.050		
100 µg	1960.950.100		
500 µg	1960.950.500		
1 mg	1960.950.199		

Please enquire for bulk quantities and other vial sizes

### Description

Tumor Necrosis Factor- $\alpha$  Human Recombinant produced in *E. Coli* is a single, non-glycosylated, polypeptide chain containing 158 amino acids (157 a.a. of the mature human TNF- $\alpha$  and an N-terminal methionine) and having a molecular mass of 17.5kDa. The TNF- $\alpha$  is purified by standard chromatographic techniques.

- **Source** *E. Coli*
- **Purity**  $\geq 95\%$  (SDS-PAGE, RP-HPLC)
- **Endotoxin level**  $\leq 0.1\text{ng}/\mu\text{g}$  ( $\leq 1\text{EU}/\mu\text{g}$ )
- **Buffer** TNF- $\alpha$  Human was lyophilized from a concentrated 1mg/ml solution containing 20mM PB, pH-7.2, and 100mM NaCl.\*
- **Physical state** Sterile filtered, lyophilized

### Biological Activity

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

### Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. Do not vortex.

### Stability

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

### Amino Acid Sequence

MVRSSSRTPS DKPVAHVVAN PQAEGQLQWL NRRANALLAN GVLRDNQLV VPSEGLYLIY SQVLFKGGQC  
 PSTHVLLTHT ISRIAVSYQT KVNLLSAIKS PCQRETPEGA EAKPWYEPIY LGGVFQLEKG DRLSAEINRP  
 DYLDFAESGQ VYFGIIAL

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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