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## 37-1114: Human TNF-alpha / TNFA Recombinant Protein(Discontinued)

Reactivity: Human

Alternative Name: DIF Protein, TNF-alpha Protein, TNFA Protein, TNFSF2 Protein,

## **Description**

#### Source: E. coli

Tumor necrosis factor alpha (TNF-alpha), also known as TNF, TNFA or TNFSF2, is the prototypic cytokine of the TNF superfamily, and is a multifunctional molecule involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. Two receptors, TNF-R1 (TNF receptor type 1; CD12a; p55/6) and TNF-R2 (TNF receptor type 2; CD12b; p75/8), bind to TNF-alpha. TNF-alpha protein is produced mainly by macrophages, and large amounts of this cytokine are released in response to lipopolysaccharide, other bacterial products, and Interleukin-1 (IL-1). TNF-alpha is involved in fighting against the tumorigenesis, thus, is regarded as a molecular insight in cancer treatment. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

### **Product Info**

Amount: alpha / TNFA Recombinant Protein(Discontinued) / 50 μg

**Purification:** > 95 % as determined by SDS-PAGE

Formulation Lyophilized from sterile PBS, pH 7.4

**Content :** Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before

lyophilization.

**Storage condition :** Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be

aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Amino Acid: Val77-Leu233

# **Application Note**

Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is typically 5-50 pg/mL. Other pack size also available.

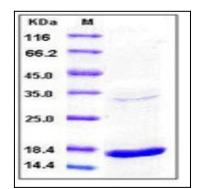


Fig 1: Human TNF-alpha / TNFA Recombinant Protein



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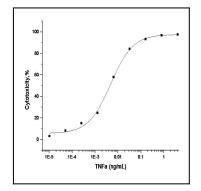


Fig 2: Human TNF-alpha / TNFA Recombinant Protein measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D.