

Active Recombinant Human Tumor Necrosis Factor

Cat. No. TGFA-7H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human TNF- alpha (Cachectin) is produced in genetically engineered yeast, and purified by sequential chromatography.
Species	Human
Source	yeast
Description	Human Tumor necrosis factor (TNF- alpha), also known as Cachectin, is a cytokine composed of 157 amino acid residues, having a molecular weight of 17 kDa (monomer). There is 79% homology between human and murine TNF- alpha, including conserved cysteine residues which form an intrachain disulfide bridge. Biological effects of this cytokine include antitumor activity in vivo and in vitro, activation of polymorphonuclear leukocytes, antiviral activity, and the induction of the release of Interleukin-1 or colony stimulating factors from a variety of sources.
Form	At concentration of 1 mg/ml in 0.02M Tris-HCl/ 0.15 M NaCl (pH 8.0)
Bio-activity	The cell cytolytic activity is determined in the L929 cells (3 x 10 ⁴ cells/assay) and it is 2-4 x 10 ⁸ U/mg.
Molecular Mass	17 KDa
Purity	Over 95% pure by SDS gel electrophoresis.
Stability	At least 1 year at -80°C.

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Storage Store at -80°C.

GENE INFORMATION

Gene Name TGFA?transforming growth factor, alpha [?Homo sapiens?(human)]

Official Symbol TGFA

Synonyms TGFA; transforming growth factor, alpha; TFGA; protransforming growth factor alpha; transforming growth factor-alpha; TGF-alpha; EGF-like TGF; TGF type 1; ETGF

Gene ID 7039

mRNA Refseq NM_001099691

Protein Refseq NP_001093161

MIM 190170

UniProt ID P01135

Chromosome Location 2p13

Pathway ErbB signaling pathway; Glioma; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Prostate cancer; Renal cell carcinoma

Function MAP kinase kinase activity; epidermal growth factor receptor binding; growth factor activity; protein binding; signal transducer activity

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