

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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