

Tumor Necrosis Factor- α Human, Recombinant, E.coli

Cat.NO.: TP04350

3th Edition

Synonyms: TNFA, TNFSF2, DIF (differentiation inducing factor), CACHECTIN, DIF, TNF-alpha, Tumor necrosis factor alpha, Tumor necrosis factor alpha, TNF, tumor necrosis factor (TNF superfamily, member 2), TNF superfamily member 2,

Description: Tumor necrosis factor alpha (TNF-alpha), also called cachectin, consists of 157 amino acids. TNF-alpha is a 17.5 kD factor produced by neutrophils, CD4+ T cells, macrophage, NK cells, LAK cells, astrocytes endothelial cells, and smooth muscle cells. TNF-alpha is cytolytic and plays an important role in immune regulation including hemorrhagic tumor necrosis/cytotoxicity and inflammation, and in regulation of antiviral and immune proliferative and activation responses. The active form of this protein is a trimer. Recombinant human TNF-alpha was expressed in E. coli and purified by using conventional chromatography techniques. Additional amino acid, methionine, was attached at N-terminus of the protein.

Form: Liquid. In PBS, pH 7.4

Molecular Weight: 17.5 kDa (158 aa), confirmed by MALDI-TOF.

Sequences:

MVRSSSRTPSDKPVAVHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLFKGGQGPCSTHV
LLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPYIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQVYF
GIIAL

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.