

Tumor necrosis factor, 80-235aa, Mouse, His tag, Insect cell

Cat.NO.: TP04349

3th Edition

Synonyms:Tnf, DIF, TNF-a, TNF-alpha, Tnfa, TNFalpha, Tnfsf1a, TNFSF2

Description:TNF, also known as tumor necrosis factor isoform 1, is the prototypic ligand of the TNF superfamily. It is a pleiotropic molecule that plays a central role in inflammation, apoptosis, and immune system development. This protein is produced by a wide variety of immune and epithelial cell types. It is assembled intracellularly to form a noncovalently linked homotrimer which is expressed on the cell surface. Cell surface TNF can induce the lysis of neighboring tumor cells and virus infected cells, and it can generate its own downstream cell signaling following ligation by soluble TNFR I. It also promotes inflammatory responses by inducing the activation of vascular endothelial cells and macrophages. Recombinant Mouse TNF, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form:Liquid. In Phosphate Buffered Saline (pH 7.4)

Molecular Weight:18.0kDa (162aa) 18-28kDa (SDS-PAGE under reducing conditions)

Sequences:

LRSSSQNSSDKPVAHVVANHQVEEQLEWLSQRANALLANGMDLKDNLVVPADGLYLVYSQVLFKGGQCPDYVL
LTHTVSRFAISYQEKVNLLSAVKSPCKDTPEGAELKPWYEPIYLGGVFQLEKGDQLSAEVNLPKYLDFAESGQVYF
GVIALHHHHHH

Purity:> 95% by HPLC

Concentration:1mg/ml (determined by Absorbance at 280nm)

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.