BioVision

TNF-alpha, Human Recombinant

CATALOG #:	P1395-10 10 μg P1395-50 50 μg
ALTERNATE NAMES:	TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, Cachectin, DIF, TNFA, TNFSF2
SOURCE:	CHO cells (Val 77 – Thr 233)
PURITY:	> 95% by SDS - PAGE
MOL. WEIGHT:	18 kDa with a 6×His tag at the C-terminus
	n TNF-alpha / TNF-a
•	Val 77- Lys 233) 6x-His Tag iProtKB - P01375
•	
Un	iProtKB - P01375
N-terminus	iProtKB - P01375 C-terminus Lyophilized from 0.22 μm filtered PBS (pH 7.4) with

DESCRIPTION:

Tumor Necrosis Factor- α (TNF- α) is a highly pleiotropic cytokine with multiple activities other than its originally discovered role of tumor necrosis in rodents. It contributes to both inflammations during infections and anti-inflammatory/tissue repair processes after clearance of infection. TNF- α is mainly produced by activated macrophages, T lymphocytes, and natural killer (NK) cells. The activity of TNF- α is mediated through two cell surface receptors, TNF-R1 (p55) and TNF-R2 (p75) that differ in their signaling activity. TNF- α 's primary role is in the regulation of immune cells. It can induce cell death of certain tumor cell lines. About 28% of cancers are susceptible to direct cell killing mediated by soluble TNF- α .

BIOLOGICAL ACTIVITY:

 ED_{50} is typically < 1 ng/ml. The specific activity was determined by the dose-dependent cytotoxicity of the TNF-alpha sensitive cell line L-929 cells in the presence of the metabolic inhibitor Actinomycin D using BioVision's Quick Cell Proliferation colorimetric Assay Kit Plus (Catalog # K302).

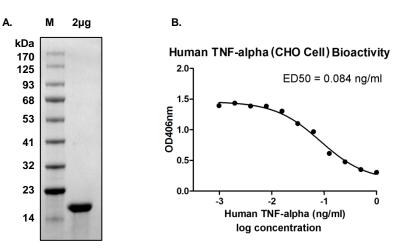


Fig. A. SDS-PAGE (4-20%) of Recombinant TNF-alpha: $2 \mu g$ of the recombinant TNF-alpha is loaded under reducing conditions and stained with Coomassie Blue.

Fig. B. Biological activity: TNF-alpha's cytotoxicity effect was measured in a cell based assay with BioVision's Quick Cell Proliferation Colorimetric Assay kit (Cat. No. K302). The ED_{50} for this effect is typically less than 1ng/mL

RELATED PRODUCTS:

- TNF-alpha, human recombinant (Cat. No. 1050)
- TNF-alpha, murine recombinant (Cat. No. 1051)
- TNF-alpha, rat recombinant (Cat. No. 1052)
- TNF-alpha Antibody (Cat. No. 3052R)
- TNF-alpha Antibody (Cat. No. 3053R)
- TNF-alpha Antibody (Cat. No. 3054)
- TNF alpha (mouse) ELISA Kit (Cat. No. K1051)
- TNF alpha (rat) ELISA Kit (Cat. No. K1052)
- TACE (TNF- α converting enzyme), human recombinant (Cat. No. 7607)

FOR RESEARCH USE ONLY! Not to be used in humans.

