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32-12325: Rat Tumor Necrosis Factor-alpha

Gene: Tnf

Gene ID: 103694380 **Uniprot ID**: P16599

Alternative Name: Tumor necrosis factor, Cachectin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a

Description

Source: Genetically modified E.coli.

Predicted MW: Monomer, 17.3 kDa (157 aa)

Tumor necrosis factor alpha (TNF-alpha) is an inflammatory cytokine secreted by macrophages, monocytes, neutrophils, T cells, and NK-cells following stimulation by bacterial lipopolysaccharide (LPS). TNF-alpha signal activation occurs through two receptors, TNFR1 and TNFR2. TNFR1 is expressed on most cell types, unlike TNFR2, which is expressed mainly on immune cells. TNF-alpha functions to stimulate phagocytosis in macrophages, chemoattract neutrophils, increase insulin resistance, and induce fever.

Product Info

Amount : 20 μg / 100 μg

Purification: Reducing and Non-Reducing SDS PAGE at >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium

Content: phosphate, 50 mM sodium chloride, pH 7.5

Sterile water at 0.1 mg/mL

Storage condition: Store at -20°C

Amino Acid: MLRSSSQNSS DKPVAHVVAN HQAEEQLEWL SQRANALLAN GMDLKDNQLV VPADGLYLIY

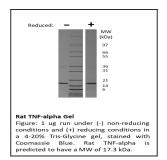
SQVLFKGQGC PDYVLLTHTV SRFATSYQEK VSLLSAIKSP CPKDTPEGAE LKPWYEPMYL

GGVSQLEKGD LLSAEVNLPK YLDITESGQV YFGVIAL

Application Note

Endotoxin: Less than 0.1 ng/Âμg (1 IEU/Âμg) as determined by LAL test.

Biological Activity was determined by Cytolysis of mouse L929 cells in the presence of Actinomycin D at <=50 pg/mL; >= 2.0×10^7 units/mg (typical ED50 is < $10 \times$





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