



Recombinant Rat TNF-alpha

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	R20-013S
Size:	5 µg
Lot. No.:	According to product label

Sequence

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MLRSSSQNSS DKPVAHVVAN HQAEEQLEWL SQRANALLAN  
GMDLKDNQLV VPADGLYLIY SQVLFKGGCC PDYVLLTHTV  
SRFAISYQEK VSLLSAIKSP CPKDTPEGAE LKPWYEFMYL  
GGVFQLEKGD LLSAEVNLPK YLDITESGQV YFGVIAL
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Database References

Protein RefSeq:	NP_036807
Uniprot ID:	P16599
mRNA RefSeq:	NM_012675

Scientific Background

Gene-ID (NCBI):	24835
Synonyms:	Tnf; Tnfa; RATTNF; TNF-alpha

TNF- α is a pleiotropic pro-inflammatory cytokine secreted by various cells including adipocytes, activated monocytes, macrophages, B cells, T cells and fibroblasts. It belongs to the TNF family of ligands and signals through two receptors, TNFR1 and TNFR2. TNF- α is cytotoxic to a wide variety of tumor cells and is an essential factor in mediating the immune response against bacterial infections. TNF- α also plays a role in the induction of septic shock, auto immune diseases, rheumatoid arthritis, inflammation, and diabetes. Recombinant rat TNF- α is a soluble 157 amino acid protein (17.3 kDa) which corresponds to C-terminal extracellular domain of the full length transmembrane protein.

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	157
MW:	17.3 kDa

Biological Activity: The ED50 as determined by the cytolysis of murine L929 cells in the presence of actinomycin D is ≤ 0.05 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^7$ units/mg.



AVOID REPEATED FREEZE AND THAW CYCLES!