

Recombinant Rat TNF- α

CATALOG #:	1052-10	10 μ g
	1052-20	20 μ g
	1052-1000	1 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE and HPLC analyses. Endotoxin level is <0.1 ng per μ g of TNF- α .	
MOL. WEIGHT:	17.0 kDa	
FORMULATION:	Sterile filtered and lyophilized from 1X PBS	

RECONSTITUTION:

We recommend a quick spin followed by reconstitution in water to a concentration of 0.1 – 1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or –20°C for future use.

STORAGE CONDITIONS:

The lyophilized TNF- α is best-stored desiccated below 0°C. Reconstituted TNF- α should be stored at working aliquots at –20°C.

DESCRIPTION:

Tumor Necrosis Factor-alpha (TNF- α) is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells. Rat TNF- α is a 17 kDa protein containing 157 amino acid residues.

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by the cytolysis of murine L929 cells in the presence of actinomycin D is \leq 0.05 ng/ml, corresponding to a specific activity of \geq 2 x 10⁷ units/mg.

RECOMMENDED USAGE:

For most *in vitro* applications, TNF- α exerts its biological activity in the concentration range of 0.5 to 20 ng/ml.

FOR RESEARCH USE ONLY! Not to be used in human subjects!

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