

RECOMBINANT HUMAN TUMOR NECROSIS FACTOR- α

CATALOG NUMBER:	GF023	QUANTITY:	50 μ g
LOT NUMBER:		SOURCE:	<i>E. Coli</i>
DESCRIPTION:	Tumor Necrosis Factor- α (TNF- α) is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells. The mature form of human TNF- α has 157 amino acid residues. GF023 is a recombinant polypeptide containing the mature form of human TNF- α with a polyhistidine tag at its amino terminal.		
PURITY:	Greater than 98% by SDS-PAGE and HPLC analysis. Endotoxin level is less than 0.1 ng per μ g (1EU/ μ g) of TNF- α .		

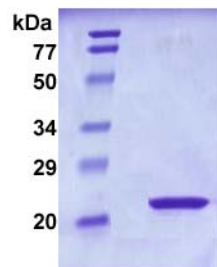


Figure 1: TNF- α on SDS-PAGE

ACTIVITY:	Chemicon's human TNF- α , is fully biologically active when compared to standards. The ED ₅₀ as determined by the cytotoxicity of mouse 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.
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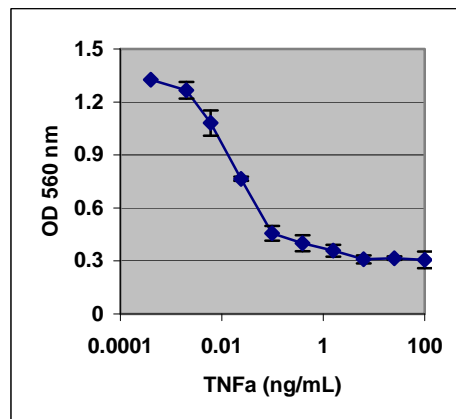


Figure 1, Cytotoxicity of mouse L929 in response to human TNF- α

APPLICATIONS:	For most <i>in vitro</i> applications, TNF- α exerts its biological activity in the concentration range of 0.05 to 20.0 ng/mL. Responding cells are (partial list): Tumor cells, certain other cells.
PRESENTATION:	Lyophilized from 3mM Tris, pH 8.0.



STORAGE/HANDLING:

The lyophilized powder, though stable at room temperature, is best stored desiccated at -20°C. Reconstitute with H₂O to a concentration of 0.1-1 mg/mL. *Note: Allow the reconstituted vial to sit at room temperature for 2 hours before use.* This solution can be diluted into other buffered solutions and stored at 4°C for one week or -20°C for future use. Reconstituted TNF- α should be stored in undiluted aliquots at -20°C for up to six months.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION**

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