

## Active GMP Recombinant Human TNF Protein

Cat. No. TNF-106HG Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TNF, Val77-Leu233, was produced in E. coli using non-animal reagents in an animal-free facility under cGMP guidelines.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	77-233 a.a.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Bio-activity</b>	<p>Measured in a cytotoxicity assay using L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D. Matthews, N. and M.L. Neale (1987) in Lymphokines and Interferons, A Practical Approach. Clemens, M.J. et al. (eds): IRL Press. 221. The ED50 for this effect is 25-100 pg/mL.</p> <p>The specific activity of recombinant human TNF-alpha GMP is approximately 7.6 x 10<sup>4</sup> IU/µg, which is calibrated against human TNF-alpha WHO International Standard (NIBSC code: 88/786).</p>
<b>Molecular Mass</b>	<p>Predicted Molecular Mass: 17 kDa</p> <p>SDS-PAGE: 17 kDa, reducing conditions</p>
<b>N-terminal Sequence Analysis</b>	Met-Val77-Arg-Ser-Ser-Ser-Arg-Thr-Pro-Ser

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin</b>	<0.10 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>97%, by SDS-PAGE with silver staining.
<b>Storage</b>	Avoid repeated freeze-thaw cycles. 12 months, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Reconstitution</b>	Reconstitute at 100-200 µg/mL in PBS.
<b>Quality Statement</b>	Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## GENE INFORMATION

<b>Gene Name</b>	TNF tumor necrosis factor [ Homo sapiens ]
<b>Official Symbol</b>	TNF
<b>Synonyms</b>	TNF; tumor necrosis factor; DIF; TNF superfamily; member 2; TNF alpha; TNFSF2; TNF-a; cachectin; tumor necrosis factor-alpha; TNFA; TNF-alpha;
<b>Gene ID</b>	7124

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



<b>mRNA Refseq</b>	NM_000594
<b>Protein Refseq</b>	NP_000585
<b>MIM</b>	191160
<b>UniProt ID</b>	P01375

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA