

Active GMP Recombinant Human TNF Protein

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

SPECIFICATION

Product Overview	Recombinant Human TNF, Val77-Leu233, was produced in E. coli using non-animal reagents in an animal-free facility under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	77-233 a.a.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	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. The specific activity of recombinant human TNF-alpha GMP is approximately 7.6×10^4 IU/µg, which is calibrated against human TNF-alpha WHO International Standard (NIBSC code: 88/786).
Molecular Mass	Predicted Molecular Mass: 17 kDa SDS-PAGE: 17 kDa, reducing conditions
N-terminal Sequence Analysis	Met-Val77-Arg-Ser-Ser-Ser-Arg-Thr-Pro-Ser

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Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE with silver staining.
Storage	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.
Reconstitution	Reconstitute at 100-200 µg/mL in PBS.
Quality Statement	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.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

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

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mRNA Refseq	NM_000594
Protein Refseq	NP_000585
MIM	191160
UniProt ID	P01375

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