

Active Recombinant Bovine TNF Protein (80 aa)

Cat. No. TNF-307T Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine Tumor Necrosis Factor-alpha (rbTNF- α) produced in E. coli cells is a single non-glycosylated polypeptide chain containing 80 amino acids. A fully biologically active molecule, rbTNF- α has a molecular mass of 17.6 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Bovine
Source	E.coli
ProteinLength	80
Description	Tumor Necrosis Factor-Alpha (TNF- α) plays a major role in regulating growth, differentiation, inflammation, viral replication, tumorigenesis, and autoimmune diseases. TNF alpha-1a is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells. In addition to inducing hemorrhagic necrosis of tumors, studies indicate TNF is involved in tumor igenesis, tumor metastasis, viral replication, septic shock, fever, inflammation, Crohn's disease, rheumatoid arthritis and graft-versus-host disease.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.1 μ g/mL, measured in a cytotoxicity assay using mouse L-929 cells in the presence of actinomycin D, corresponding to a specific activity of > 1 $\times$ 10 ⁴ units/mg.
Molecular Mass	17.6 kDa, observed by reducing SDS-PAGE

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AA Sequence	MLRSSSQASSNKPVAHVADINSPGQLRWWDSYANALMANGVKLEDNQLVVPADG LYLIYSQVLFRGQGCPSTPLFLTHTISRIAVSYQTKVNILSAIKSPCHRETPEWAEAKP WYEPIYQGGVFQLEKGDRLSAEINLPDYLDYAESGQVYFGIIAL
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE & HPLC
Storage	Lyophilized recombinant Bovine TNF-α remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Bovine TNF-α should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [Bos taurus (cattle)]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; TNFa; TNF-α; TNF-alpha; tumor necrosis factor; cachectin; tumor necrosis factor alpha; tumor necrosis factor ligand superfamily member 2
Gene ID	280943
mRNA Refseq	NM_173966
Protein Refseq	NP_776391

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UniProt ID

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