

Active Recombinant Bovine TNF Protein

Cat. No. TNF-20B Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine TNF-alpha (78-234aa, 158aa) without tag was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Bovine
Source	E.coli
ProteinLength	78-234
Description	<p>Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation (By similarity).</p> <p>Induces insulin resistance in adipocytes via inhibition of insulin-induced IRS1 tyrosine phosphorylation and insulin-induced glucose uptake. Induces GKAP42 protein degradation in adipocytes which is partially responsible for TNF-induced insulin resistance.</p>
Form	Liquid
Bio-activity	Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 range \leq 15 ng/mL.

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Molecular Mass	17.5 kDa
AA Sequence	MLRSSSQASSNKPVAHVVADINSPGQLRWWDSYANALMANGVKLEDNQLVVPADG LYLIYSQVLFRGQGCPSTPLFLTHTISRIAVSYQTKVNILSAIKSPCHRETPEWAEAKP WYEPIYQGGVVFQLEKGDRLSAEINLPDYLDYAESGQVYFGIIAL
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at 2 to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Bradford assay)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [<i>Bos taurus</i> (cattle)]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; TNFa; TNF-a; TNF-alpha; tumor necrosis factor; cachectin; tumor necrosis factor alpha; tumor necrosis factor ligand superfamily member 2
Gene ID	280943

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mRNA Refseq [NM_173966](#)

Protein Refseq [NP_776391](#)

UniProt ID [Q06599](#)

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