

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	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). 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.
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 ≤ 15 ng/mL.

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Molecular Mass	17.5 kDa
AA Sequence	MLRSSSQASSNKPVAHVADINSPGQLRWWDSYANALMANGVKLEDNQLVVPADG LYLIYSQVLFRGQGCPSTPLFLTHTISRIAVSYQTKVNILSAIKSPCHRETPEWAEAKP WYEPIYQGGVFQLEKGDRLSAEINLPDYLDYAESGQVYFGIIL
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 [Bos taurus (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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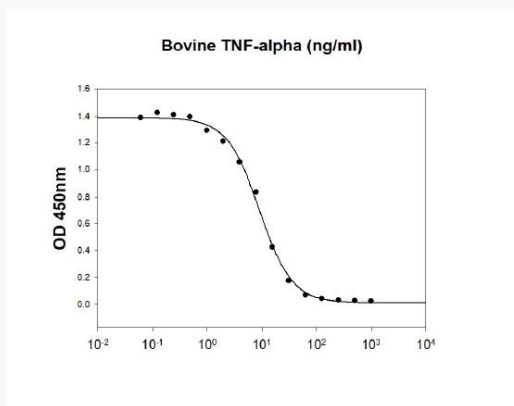
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mRNA Refseq NM_173966

Protein Refseq NP_776391

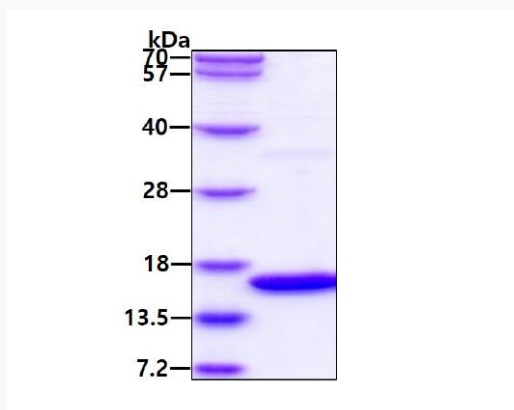
UniProt ID Q06599

Biological Activity



Bovine TNF-alpha stimulates cell cytotoxicity in the L929 mouse fibrosarcoma cells.
The ED50 range ≤ 15 ng/mL

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue

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