

Active Recombinant Bovine TNF Protein

Cat. No. TNF-716B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine TNF Protein is produced by E.coli expression system.
Species	Bovine
Source	E.coli
ProteinLength	78-234 aa
Description	TNF-alpha, also known as tumor necrosis factor, is the prototypic ligand of the TNF superfamily. It is a pleiotropic molecule that plays a central role in inflammation, apoptosis, and immune system development. This protein is produced by a wide variety of immune and epithelial cell types. It is assembled intracellularly to form a noncovalently linked homotrimer which is expressed on the cell surface. Cell surface TNF can induce the lysis of neighboring tumor cells and virus infected cells, and it can generate its own downstream cell signaling following ligation by soluble TNFR I. It also promotes inflammatory responses by inducing the activation of vascular endothelial cells and macrophages. Recombinant Bovine TNF-alpha was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate buffer saline(pH 7.4) containing 10 % glycerol.
Bio-activity	Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is less or equal to 15 ng/ml.

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Molecular Mass	17.5 kDa
AA Sequence	MLRSSSQASS NKPVAHVVD INSPGQLRWW DSYANALMAN GVKLEDNQLV VPADGLYLIY SQVLFRGQGC PSTPLFLTHT ISRIAVSYQT KVNILSAIKS PCHRETPEWA EAKPWYEPIY QGGVFQLEKG DRLSAEINLP DYLDYAESGQ VYFGIIAL
Endotoxin	< 1.0 EU per 1 ug of protein (determined by LAL method)
Purity	> 90 % by SDS - PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [Bos taurus (cattle)]
Official Symbol	TNF
Synonyms	Tumor necrosis factor; TNF-a; TNF; TNFa
Gene ID	280943
mRNA Refseq	NM_019397

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Protein Refseq	NP_776391
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UniProt ID	Q06599
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