

Bioworld Technology,Inc.

Recombinant TNF-α, Bovine

Catalog Number: BK0168-10µg

Source: Escherichia coli.

der.

Quantity: 10µg

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.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, $rbTNF-\alpha$ has a molecular mass of 17.6 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

17.6 kDa, observed by reducing SDS-PAGE

Purity:

> 95% as analyzed by SDS-PAGE & HPLC

Biological 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.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MLRSSSQASSNKPVAHVVA-DINSPGQLRWWDSYANAL-MANGVKLEDNQLVVPADGLYLIYSQVLFRGQGC PSTPLFLTHTISRIAVSYQTKVNIL-SAIKSPCHRETPEWAEAKPWYEPIYQGGVFQLEK GDRLSAEINLPDYLDYAESGQVYFGIIAL

Endotoxin:

 $< 0.2 \text{ EU/}\mu g$, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Bovine TNF- α remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Bovine TNF- α should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.