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32-6561: TNFA Bovine

Application : Functional Assay
Alternative Name : TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNF-a, Cachectin, DIF, TNFA, TNFSF2.

Description

Source: Escherichia Coli.
Sterile filtered colorless solution.
Tumor necrosis factor is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is involved in systemic inflammationand secreted mainly by macrophages. TNF causes apoptotic cell death, cellular proliferation, differentiation, inflammation, tumorigenesis and viral replication, TNF is also involved in lipid metabolism, and coagulation. TNF's primary role is in the regulation of immune cells. Dysregulation and, in particular, overproduction of TNF have been implicated in a variety of human diseases- autoimmune diseases, insulin resistance, and cancer.
TNFA Bovine produced in E.Coli is a single, non-glycosylated polypeptide chain containing 158 amino acids (78-234 a.a.) and having a molecular mass of 17.5kDa. TNFA is purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The TNFA (1mg/ml) contains Phosphate buffer saline(pH7.4) and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MLRSSSQASS NKPVAHVVAD INSPGQLRWW DSYANALMAN GVKLEDNQLV VPADGLYLIY SQVLFRGQGC PSTPLFLTHT ISRIAVSYQT KVNILSAIKS PCHRETPEWA EAKPWYEPIY QGGVFQLEKG DRLSAEINLP DYLDYAESGQ VYFGIIAL.Â

Application Note

The ED50 Is < 15 ng/ml and is measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.