

32-6557: TNF α Human, Sf9

Application : Functional Assay

Alternative Name : Tumor Necrosis Factor, TNFA, Tumor Necrosis Factor Ligand Superfamily Member 2, Cachectin, TNF-Alpha, TNFSF2, TNF-A, Tumor Necrosis Factor (TNF Superfamily, Member 2), Tumor Necrosis Factor-Alpha, TNF, Macrophage-Derived, TNF, Monocyte-Derived, TNF Superfamily, APC1 Protein, Member 2, DIF, Tumor necrosis factor.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered clear solution.

Tumor necrosis factor is a cytokine involved in systemic inflammation and is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is mainly secreted 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.

TNF α produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 163 amino acids (77-233a.a.) and having a molecular mass of 18.1kDa. (Molecular size on SDS-PAGE will appear at approximately 18-28kDa). TNF α is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 μ g / 10 μ g

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : TNF α protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4) 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). Please avoid freeze thaw cycles.

Amino Acid : VRSSSRTPSD KPAHVAVNP QAEGQLQWLN RRANALLANG VELRDNQLVV PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV YFGIILHHH HHH.

Application Note

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 \leq 0.2 ng/ml.