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32-20237: Animal-Free Recombinant Human TNF-Alpha(Discontinued)

Reactivity : Cow, Dog, Human, Monkey, Mouse, Pig, Rat, Sheep

Alternative Name : Tumor Necrosis Factor, TNFSF2, Cachectin, Differentiation-inducing factor (DIF), Necrosin, Cytotoxin

Description

Source:E.coli

TNF-Alpha is a pleiotropic pro-inflammatory cytokine secreted by various cells, including adipocytes, activated monocytes, macrophages, B cells, T cells and fibroblasts. It belongs to the TNF family of ligands, and signals through two receptors, TNFR1 and TNFR2. TNF-Alpha is cytotoxic to a wide variety of tumor cells, and is an essential factor in mediating the immune response against bacterial infections. TNF-Alpha also plays a role in the induction of septic shock, autoimmune diseases, rheumatoid arthritis, inflammation, and diabetes. Human and murine TNF-Alpha demonstrate significant cross-species reactivity. TNF-Alpha exists in two forms; a type II transmembrane protein, and a mature soluble protein. The TNF-Alpha transmembrane protein is proteolytically cleaved to yield a soluble, biologically active, 17 kDa TNF-Alpha, which forms a non-covalently linked homotrimer in solution. Recombinant Human TNF-Alpha is a soluble 157 amino acid protein (17.4 kDa) which corresponds to C-terminal extracellular domain of the full length transmembrane protein.

Product Info

Amount : 10 µg / 50 µg

Purification : Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

Amino Acid : VRSSSRTPSD KPVAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLVV PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV YFGIIAL

Application Note

TheÃ□Â ED_{50} as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is <= 0.05 ng/ml, corresponding to a specific activity of >= 2 x 10^{7} units/mg

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