

32-20239: Animal-Free Recombinant Murine TNF-Alpha(Discontinued)

Reactivity : Mouse

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 Murine TNF-Alpha is a soluble 157 amino acid protein (17.3 kDa) which corresponds to C-terminal extracellular domain of the full length transmembrane protein.

Product Info

Amount : 5 µg / 20 µg

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

Amino Acid : MLRSSSQNSS DKPVAHVVAN HQVEEQLEWL SQRANALLAN GMDLKDNLV VPADGLYLVY
SQVLFKGGQC PDYVLLTHTV SRFAISYQEK VNLLSAVKSP CPKDTPEGAE LKPWYEPIYL GGVFQLEKGD
QLSAEVNLPK YLDFAESGQV YFGVIAL

Application Note

Determined by the cytolysis of murine L929 cells in the presence of Actinomycin D. The expected ED_{50} is ≤ 0.1 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^6$ U/mg.