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TNF-alpha Recombinant Protein

CATALOG NUMBER: 40-115

Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	VRSSSRTPSD KPVAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLVV PSEGLYLIYS QVLFKGQGCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV YFGIIAL
TESTED APPLICATIONS:	
BIOLOGICAL ACTIVITY:	The ED50 was 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.

Properties

PURITY:	Greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per ug (1EU/ug).
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The lyophilized TNF-alpha recombinant protein is stable for at least 2 years from date of receipt at -20˚C. Reconstituted TNF-alpha is stable for at least 3 months when stored in working aliquots with a carrier protein at -20˚C. As with any protein, exposing TNF-alpha recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Additional Info

ALTERNATE NAMES:	DIF, TNFA, TNFSF2, TNF-alpha, Tumor necrosis factor, Cachectin, TNF-a
ACCESSION NO.:	NP_000585.2
PROTEIN GI NO.:	25952111

Background

TNF-α is a pleiotrophic 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-α is cytotoxic to a wide variety of tumor cells and is an essential factor in mediating the immune response against bacterial infections. TNF-α also plays a role in the induction of septic shock, auto immune diseases, rheumatoid arthritis, inflammation, and diabetes. Recombinant human TNF-α is a soluble 157 amino acid protein (17.4 kDa) which corresponds to C-terminal extracellular domain of the full length transmembrane protein.

FOR RESEARCH USE ONLY

December 13, 2016