



Recombinant Human TNF- α protein

E13-012

Catalog Number:	E13-012-1, E13-012-2
Amount:	10 μ g, 50 μ g
Product description:	Human TNF α produced in E. coli is non-glycosylated polypeptide chain containing 158 amino acids (2-158 a.a; predicted MW=17.48kDa.). The recombinant protein was purified by anion exchange chromatography and gel filtration chromatography. Purity is greater than 98% by SDS-PAGE and Coomassie blue staining (Figure 1).
Background:	TNF α (tumor necrosis factor α), also known as cachectin produced by macrophages, NK cells, and T- and B-lymphocytes. TNF α is a cytokine involved in systemic inflammation. The primary role of TNF α is in the regulation of immune cells. TNF α is able to induce apoptotic cell death and inflammation, and to inhibit tumorigenesis and viral replication. Dysregulation of TNF α has been implicated in a variety of human diseases, including cancer, autoimmune disease, diabetes, osteoporosis and atherosclerosis.
GenBank accession number:	NP_000585
Amino acid sequence:	MVRSSSRTPSDKPVAVHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYS QVLFKGGQCPSTHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPYIYLGGVF QLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL
Formulation:	Lyophilized from a 0.22 μ m filtered solution at a concentration of 1mg/ml in PBS.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water to a concentration of 1.0 mg/ml.
Shipping&Stability:	The Product is shipped at ambient temperature. Upon reconstitution, the preparation is stable for up to 1 month at 2-8 $^{\circ}$ C. For long term storage, apportion the reconstituted preparation into working aliquots and store at -20 $^{\circ}$ C to -70 $^{\circ}$ C. Avoid repeated freeze/thaw cycles.

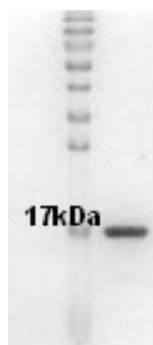


Figure1. The purity of recombinant protein TNF α (E13-012). 15 % SDS-PAGE, 4 μ g protein.

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