TNF-alpha
Recombinant human protein expressed in E. coli cells

Catalog # T860-40N
Lot # S346-3

Product Description

Recombinant human TNF-alpha was expressed in E. coli cells and purified by proprietary chromatographic techniques. The protein accession number is P01375.

Gene Aliases

TNF, TNFα, DIF, TNFA, TNFSF2

Endotoxin Level

Less than 0.1 ng/µg (IEU/µg) of TNF-alpha.

Formulation

Recombinant protein stored in 1 X PBS, 10% glycerol.

Storage and Stability

Stored at desiccated below -20°C. It is stable at 4°C between 2-7 days. For long term storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Scientific Background

TNF-alpha is a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily and it is secreted predominantly by monocytes/macrophages that have effects on lipid metabolism, coagulation, insulin resistance, and endothelial function [1]. TNF-alpha is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation and implicated in a variety of diseases. TNF-alpha also participates in the homeostatic activity-dependent regulation of synaptic connectivity and play roles in synaptic plasticity and modulating responses to neural injury [2].

References