

## **Recombinant Mouse TNF**

Cat No:HR2R2227

For research use only

## Overview

Quantity	50 ?g
Gene Symbol	TNF
Gene ID	21926
Accession	P06804
Alternative Name	TNF-alpha, TNF-a, Tumor necrosis factor ligand superfamily member 2, Cachectin, Tnfa, Tnfsf2, Tnf br/>Recombinant Mouse Tumor Necrosis Factor Alpha (TNF)
Species	Mouse
Source	E. coli
Description	TNF is secreted by macrophages, monocytes, neutrophils, T cells, natural killer cells following their stimulation by bacterial lipopolysaccharides. Cells expressing CD4 secrete TNF-alpha while CD8(+) cells secrete little or no TNF-alpha. Stimulated peripheral neutrophilic granulocytes but also unstimulated cells and also a number of transformed cell lines, astrocytes, microglial cells, smooth muscle cells, and fibroblasts also secrete TNF. Human milk also contains this factor. The synthesis of TNF-alpha is induced by many different stimuli including interferons, IL-2, GM-CSF, SP, Bradykinin, immune complexes, inhibitors of cyclooxygenase and PAF (platelet activating factor). Human TNF-alpha is a non-glycosylated protein of 17 kDa and a length of 157 amino acids. Murine TNF-alpha is N-glycosylated. Homology with TNF-beta is approximately 30%. TNF-alpha forms dimers and trimers.
Functions	The ED(50) was determined cytolysis of murine L929 cells in the presence of Actinomycin D is ? 0.05 ng/mL, corresponding to a specific activity of ? 3.0 x 10^7 units/mg.
Formulation	Recombinant mouse TNF alpha was lyophilized from 0.2 ?m filtered PBS solution, pH 7.0.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	17
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature

Storage Condition The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

