Recombinant Mouse TNF

Cat No:HR2R2228

For research use only

Overview

Quantity	1.0 ?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 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.

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