SignalChem
Specialists in Signaling Proteins
1-866-9 KINASE (54-6273)

Catalog #	Aliquot Size
T860-40BN-50	50 µg
T860-40BN-100	100 µg
T860-40BN-1000	1 mg

Recombinant Human TNF

Recombinant human protein expressed in E. coli cells

Catalog # T860-40BN
Lot # G3223-18

Product Description

Recombinant Human TNF was expressed in E. coli cells. The protein accession number is P01375

Gene Aliases

TNFSF2, Cachectin, Differentiation-inducing factor (DIF), Necrosin, Cytotoxin, Recombinant Human Tumor Necrosis Factor Alpha (TNF)

Endotoxin Level

<1.0 EU/µg of recombinant protein as determined by the LAL method

Formulation

Lyophilized from a 0.2 µm filtered solution in PBS (pH 7.2)

Reconstitution Protocol

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.

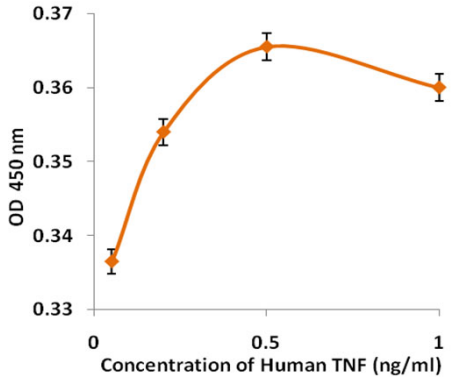
Storage and Stability

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.

Scientific Background

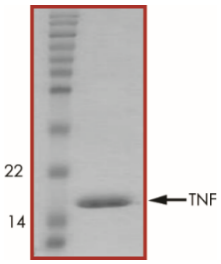
Tumor Necrosis Factor is secreted by macrophages, monocytes, neutrophils, T cells, natural killer cells following their stimulation by bacterial lipopolysaccharides although cells expressing CD8(+) secrete little or no TNF-alpha. In addition, TNF is secreted by peripheral neutrophilic granulocytes and by a number of transformed cell lines that include those of astrocytes, microglial cells, smooth muscle cells and fibroblasts. Human milk also contains this factor. The synthesis of TNF-alpha is induced by many different stimuli including interferons, IL2, GM-CSF, SP, Bradykinin, Immune complexes, inhibitors of cyclooxygenase and platelet activating factor. TNF-alpha shares approximately 30% homology with TNF-beta. Human TNF-alpha is a non-glycosylated protein of 17.6 kDa.

Specific Activity



The ED50 as determined by dose dependent proliferation of IL4 stimulated human megakaryocytic cell line was found to be ≤0.5 ng/mL

Purity



Recombinant Human TNF resolved on a 15% SDS-PAGE gel under reducing conditions and stained with Coomassie Brilliant Blue G-250

Approx. MW **17.6 kDa**

Recombinant Human TNF

Recombinant human protein expressed in E. coli cells

Catalog Number	T860-40BN
Specific Lot Number	G3223-18
Purity	95%
Stability	6 mos. at –20°C from date of shipment
Storage & Shipping	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.

To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
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