

LTA

Recombinant Human Tumor Necrosis Factor beta

Catalog No.	CRT103A CRT103B CRT103C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	Lymphotoxin-alpha, LT-alpha, TNF-beta, tumor necrosis factor ligand superfamily member 1, LT, TNFB, TNFSF1.		
Description:	<p>Lymphotoxin alpha, a member of the tumor necrosis factor family, is a cytokine produced by lymphocytes. LTA is highly inducible, secreted, and exists as homotrimeric molecule. LTA forms heterotrimers with lymphotoxin-beta which anchors lymphotoxin-alpha to the cell surface. LTA mediates a large variety of inflammatory, immunostimulatory, and antiviral responses. LTA is also involved in the formation of secondary lymphoid organs during development and plays a role in apoptosis.</p> <p>Recombinant Human TNF-beta is a single, non-glycosylated, polypeptide chain containing 172 amino acids and purified by proprietary techniques.</p>		
GenelD:	4049		
Source:	<i>E. coli</i>		
Molecular Weight:	18.645 kDa		
Formulation:	Sterile filtered and then lyophilized with no additives.		
Purity:	>95.0% as determined by RP-HPLC and SDS-PAGE analyses.		
Endotoxin Level:	Less than 0.1 ng/µg (1 EU/µg) of recombinant Human TNF-beta.		
Biological Activity:	The ED ₅₀ as determined by the cytolysis of mouse L929 cells in the presence of Actinomycin D is < 0.05 ng/ml.		
Specific Activity:	2 x 10 ⁷ IU/mg.		
Amino Acid Sequence:	MLPGVGLTPS AAQTARQHPK MHLAHSTLKP AAHLIGDPSK QNSLLWRANT DRAFLQDGFS LSNNSLLVPT SGIYFVYSQV VFSGKAYSPK ATSSPLYLAH EVQLFSSQYP FHVPLLSSQK MVYPGLQEPW LHSMYHGAAF QLTQGDQLST HTDGIPHLVL SPSTVFFGAF AL		
Reconstitution:	Centrifuge vial prior to opening. First add sterile water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
Storage & Stability:	Store lyophilized protein at -20°C to -80°C. Reconstituted protein is stable for 1 week at 2 -4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein such as 0.1% HSA or BSA as a stabilizer. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

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