

Recombinant Human Lymphotoxin Alpha

Cat. No. LTA-260H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Lymphotoxin Alpha is a protein produced in insect cells containing 172 amino acid residues and has an approximate molecular weight of 19.3 kDa based on SDS-PAGE gel and Mass Spectrometry due to glycosylation.
Species	Human
Source	Insect Cells
Description	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.
Purity	> 95% by SDS-PAGE and HPLC analysis.
Endotoxin Level	< 0.1 ng per µg of TNF-beta.
Stabilizer	None.
Formulation	Lyophilized.
Biologically Activity	The ED ₅₀ was determined by the cytolysis of murine L929 cells in the presence of actinomycin D is < 0.05 ng/ml, corresponding to a specific activity of > 2 x 10 ⁷

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units/mg.

Reconstitution

The human TNF-beta should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.

Stability

The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted human TNF-beta should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name

LTA lymphotoxin alpha (TNF superfamily, member 1) [Homo sapiens]

Synonyms

LTA; lymphotoxin alpha (TNF superfamily, member 1); LT; TNFB; TNFSF1; lymphotoxin alpha; OTTHUMP00000165897; tumor necrosis factorbeta; LT-alpha; TNF-beta; Tumor necrosis factor ligand superfamily member 1; OTTHUMP00000029184; OTTHUMP00000037612; OTTHUMP00000037613

Gene ID

4049

mRNA Refseq

NM_000595

Protein Refseq

NP_000586

MIM

153440

UniProt ID

P01374

**Chromosome
Location**

6p21.3

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Pathway

Antigen processing and presentation; Cytokine-cytokine receptor interaction; Type I diabetes mellitus

Function

cytokine activity; tumor necrosis factor receptor binding

PDB rendering based on 1tnr.

