

Recombinant Human Lymphotoxin Alpha (TNF superfamily, member 1)

Cat. No. LTA-5067H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Human

Product Overview Recombinant human LTA was expressed in Hi-5 Insect cells and purified by using SDS PAGE and HPLC.

Description LTA is a potent mediator of inflammatory and immune responses. It belongs to the TNF superfamily of ligands and signals through TNFR1 and TNFR2. LTA is produced by activated T and B lymphocytes, and has similar activities to TNF- α . Like TNF- α , LTA is involved in the regulation of various biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, coagulation, and neurotransmission. LTA is secreted as a soluble polypeptide, but can form heterotrimers with lymphotoxin-beta, which effectively anchors the LTA to the cell surface. LTA is cytotoxic to a widerange of tumor cells.

Form Lyophilized from 10mM Na₃PO₄, pH 7.0, with 50 mM NaCl. Reconstitute in Water to a concentration of 0.1-1.0 mg/ml.

Purity >98% pure by SDS PAGE and HPLC

Sequence Region of TNF beta protein corresponding to amino acids GVGLTPSAAQ

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TARQHPKMHL AHSTLKPA AHLIGDPSKQNS LLWRANTDRA FLQDGFSLSN
 NSLLVPTSGI YFVYSQVVFS GKAYSPKATS SPLYLAHEVQLFSSQYPFHV
 PLLSSQKVMY PGLQEPWLHS MYHGAAFQLT QGDQLSTHTD GIPHLVLSPS
 TVFFGAFAL.

Molecular Mass 18.6 kDa

Applications Numerous applications are possible with this product and should be tested by the enduser under their own laboratory conditions.

Storage Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

Official Symbol LTA

GENE INFORMATION

Gene Name [LTAlymphotoxin alpha \(TNF superfamily, member 1\) \[Homo sapiens \]](#)

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

Gene ID [4049](#)

mRNA Refseq [NM_000595](#)

Protein Refseq [NP_000586](#)

MIM [153440](#)

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UniProt ID	P01374
Chromosome Location	6p21.3
Pathway	Apoptosis;Cytokine-cytokine receptor interaction; HTLV-I infection; Herpes simplexinfection; IL2 signaling events mediated by STAT5; IL4-mediated signalingevents; Type I diabetes mellitus
Function	cytokineactivity; receptor binding; tumor necrosis factor receptor binding
PDBrendering based on 1tnr.	