Recombinant Human Lymphotoxin Alpha (TNF superfamily, member 1)

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

SPECIFICATION

Product Overview	
Species	Human
Source	Human
roduct Overview	Recombinant human LTAwas expressed in Hi-5 Insect cells and purified by using SDS PAGE and HPLC.
Description	LTA is a potentmediator of inflammatory and immune responses. It belongs to the TNFsuperfamily of ligands and signals through TNFR1 and TNFR2. LTA is producedby activated T and B lymphocytes, and has similar activities to TNF-alpha.Like TNF-alpha, LTA is involved in the regulation of various biologicalprocesses incuding cell proliferation, differentiation, apoptosis, lipidmetabolism, coagulation, and neurotransmission. LTA is secreted as a solublepolypeptide, but can form heterotrimers with lymphotoxin-beta, whicheffectively anchors the LTA to the cell surface. LTA is cytotoxic to a widerange of tumor cells.
Form	Lyophilizedfrom 10mM Na3PO4, pH 7.0, with 50 mM NaCl. Reconstitute in Water to aconcentration of 0.1-1.0 mg/ml.
Purity	>98% pure by SDSPAGE and HPLC
Sequence	Region of TNF betaprotein corresponding to amino acids GVGLTPSAAQ

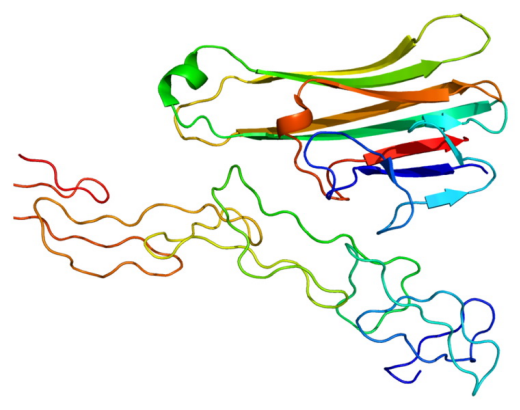
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	TARQHPKMHL AHSTLKPAAHLIGDPSKQNS LLWRANTDRA FLQDGFSLSN NSLLVPTSGI YFVYSQVVFS GKAYSPKATS SPLYLAHEVQLFSSQYPFHV PLLSSQKMVY PGLQEPWLHS MYHGAAFQLT QGDQLSTHTD GIPHLVLSPS TVFFGAFAL.
Molecular Mass	18.6 kDa
Applications	Numerousapplications are possible with this product and should be tested by the enduser under their own laboratory conditions.
Storage	Storeat 4 deg C until reconstitution. Following reconstitution aliquot and freezeat -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.
OfficialSymbol	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 ligandsuperfamily 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.	

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