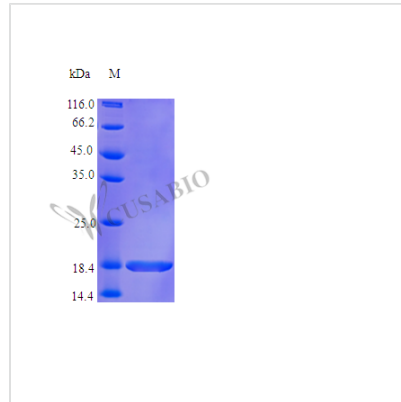




# Recombinant Human Lymphotoxin-alpha protein (LTA) (Active)

<b>Product Code</b>	CSB-AP002171HU
<b>Abbreviation</b>	Recombinant Human LTA protein (Active)
<b>Uniprot No.</b>	P01374
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered PBS, pH7.4, with 0.02 % Tween-20
<b>Product Type</b>	Tumor Necrosis Factor
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED50 as determined by a cytotoxicity assay using murine L929 cells is less than 5 pg/ml, corresponding to a specific activity of >2.0x10 <sup>8</sup> IU/mg in the presence of actinomycin D.
<b>Purity</b>	>96% as determined by SDS-PAGE.
<b>Sequence</b>	LPGVGLTPSA AQTARQHPKM HLAHSTLKPA AHLIGDPSKQ NSLLWRANTD RAFLQDGFSL SNNLLVPTS GIYFVYSQVV FSGKAYSPKA TSSPLYLAHE VQLFSSQYPF HVPLLSSQKM VYPGLQEPWL HSMYHGAAFQ LTQGDQLSTH TDGIPHLVLS PSTVFFGAFA L
<b>Research Area</b>	Signal Transduction
<b>Source</b>	E.coli
<b>Target Names</b>	LTA
<b>Expression Region</b>	35-205aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag-Free
<b>Mol. Weight</b>	18.7 kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>PubMed ID</b>	3555974; 3001109; 3536896; 6334807; 1353024; 8499947; 10202016; 14656967; 15489334; 1451807; 1733919; 8387891; 1670638; 1671667; 12746914; 17353895
<b>Image</b>	



## Description

Recombinant Human Lymphotoxin-alpha protein (LTA) (Active) is a partial length protein expressed without tag in the E.coli. Its expression region corresponds to 35-205aa of human LTA protein. Its purity was determined by SDS-PAGE and reached up to 96% and presented a molecular mass band around 18.7 kDa on the gel. It was validated to be biologically active through functional ELISA analyses. The endotoxin of this recombinant protein is less than 1.0 EU/μg as determined by LAL method. This recombinant LTA proteins in-stock are available.

LTA is a cytokine that in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFR2 and TNFRSF14/HVEM. In its heterotrimeric form with LTB binds to TNFRSF3/LTBR. Lymphotoxin is produced by lymphocytes and cytotoxic for a wide range of tumor cells in vitro and in vivo. Diseases associated with LTA include Psoriatic Arthritis and Leprosy 4.

## Endotoxin

Less than 1.0 EU/μg as determined by LAL method.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.