

## Product datasheet

# Recombinant human LTA protein ab639

### Description

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<b>Product name</b>	Recombinant human LTA protein
<b>Biological activity</b>	The ED50, 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 <sup>7</sup> units/mg.
<b>Purity</b>	>= 98 % SDS-PAGE. Sterile filtered Greater than 98% pure by HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/µg).
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<a href="#">P01374</a>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MLPGVGLTPS AAQTARQHPK MHLAHSTLKP AAHLIGDPSK QNSLLWRANT DRAFL QDGFSLSNNSLLVPT SGYFVYSQV VFSGKAYSPK ATSSPLYLAH E VQLFSSQYP FHVPLLSSQKMVYPGLQEPW LHSMYHGAAF QLTQGDQL ST HTDGIPHLVL SPSTVFFGAF AL
<b>Predicted molecular weight</b>	19 kDa

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab639** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE Functional Studies
<b>Form</b>	Lyophilized
<b>Additional notes</b>	The ED50, 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 <sup>7</sup> units/mg. This product was previously labelled as TNF beta

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at 4°C (up to 6 months). Store at -20°C. This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	Reconstitute with 20µl pure water.

## General Info

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<b>Function</b>	Cytokine that in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFR 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.
<b>Involvement in disease</b>	Genetic variations in LTA are a cause of susceptibility psoriatic arthritis (PSORAS) [MIM:607507]. PSORAS is an inflammatory, seronegative arthritis associated with psoriasis. It is a heterogeneous disorder ranging from a mild, non-destructive disease to a severe, progressive, erosive arthropathy. Five types of psoriatic arthritis have been defined: asymmetrical oligoarthritis characterized by primary involvement of the small joints of the fingers or toes; asymmetrical arthritis which involves the joints of the extremities; symmetrical polyarthritis characterized by a rheumatoidlike pattern that can involve hands, wrists, ankles, and feet; arthritis mutilans, which is a rare but deforming and destructive condition; arthritis of the sacroiliac joints and spine (psoriatic spondylitis).
<b>Sequence similarities</b>	Belongs to the tumor necrosis factor family.
<b>Cellular localization</b>	Secreted. Membrane. The homotrimer is secreted. The heterotrimer is membrane-associated.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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