

Product datasheet

Recombinant human LTA protein ab639

Description

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

Predicted molecular weight 19 kDa

Description Recombinant human TNF beta protein

Specifications

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.

Applications SDS-PAGE
Functional Studies

Form Lyophilized

Additional notes 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 10⁷ units/mg.
This product was previously labelled as TNF beta

Preparation and Storage

Stability and Storage	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.
Reconstitution	Reconstitute with 20µl pure water.

General Info

Function	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.
Involvement in disease	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).
Sequence similarities	Belongs to the tumor necrosis factor family.
Cellular localization	Secreted. Membrane. The homotrimer is secreted. The heterotrimer is membrane-associated.

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

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