

Product datasheet

Recombinant Human TNF alpha protein ab270769

1 Image

Description

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|                                   |                                     |
|-----------------------------------|-------------------------------------|
| <b>Product name</b>               | Recombinant Human TNF alpha protein |
| <b>Purity</b>                     | > 95 % SDS-PAGE.                    |
| <b>Endotoxin level</b>            | < 0.100 Eu/μg                       |
| <b>Expression system</b>          | Escherichia coli                    |
| <b>Accession</b>                  | <a href="#">P01375</a>              |
| <b>Protein length</b>             | Full length protein                 |
| <b>Animal free</b>                | No                                  |
| <b>Nature</b>                     | Recombinant                         |
| <b>Species</b>                    | Human                               |
| <b>Predicted molecular weight</b> | 25 kDa                              |
| <b>Actual molecular weight</b>    | 18 kDa                              |

Specifications

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Our [Abpromise guarantee](#) covers the use of **ab270769** 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

**Form** Liquid

Preparation and Storage

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**Stability and Storage** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.  
 pH: 7.5  
 Constituents: PBS, 10% Glycerol (glycerin, glycerine)

General Info

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**Function** Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFB. It is mainly secreted by

macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia. Under certain conditions it can stimulate cell proliferation and induce cell differentiation.

#### Involvement in disease

Genetic variations in TNF 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.

#### Post-translational modifications

The soluble form derives from the membrane form by proteolytic processing.

The membrane form, but not the soluble form, is phosphorylated on serine residues.

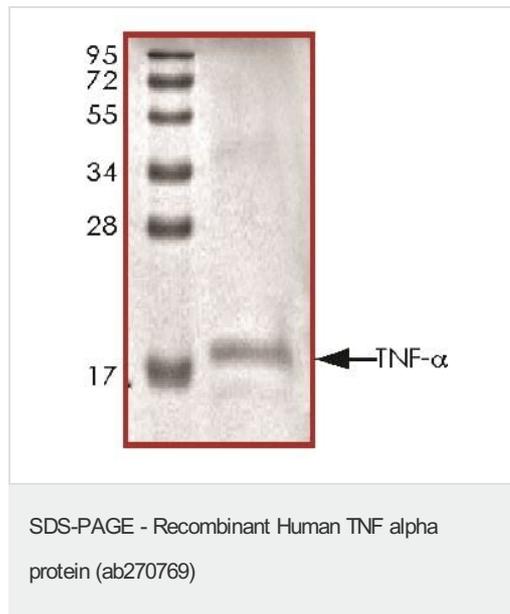
Dephosphorylation of the membrane form occurs by binding to soluble TNFRSF1A/TNFR1.

O-glycosylated; glycans contain galactose, N-acetylgalactosamine and N-acetylneuraminic acid.

#### Cellular localization

Secreted and Cell membrane.

#### Images



Recombinant human TNF alpha protein (ab270769) resolved on an SDS-PAGE gel.

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

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- Replacement or refund for products not performing as stated on the datasheet
- 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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