

Product datasheet

Recombinant mouse TNF alpha protein (Active) ab9740

7 References

Description

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| Product name | Recombinant mouse TNF alpha protein (Active) |
| Biological activity | The ED₅₀ , as determined by the cytolysis of murine L929 cells in the presence of actinomycin D, is ≤ 0.1 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^7$ units/mg. |
| Purity | ≥ 98 % SDS-PAGE. ≥ 98 % HPLC analyses. Sterile filtered. |
| Endotoxin level | < 1.000 Eu/ μ g |
| Expression system | Escherichia coli |
| Accession | <u>P06804</u> |
| Protein length | Full length protein |
| Animal free | No |
| Nature | Recombinant |
| Species | Mouse |
| Sequence | MLRSSSQNSS DKPVAHVVAN HQVEEQLEWL SQRANALLAN GMDLKDNQLV VPADGLYLVY SQVLFGQGQC PDYVLLTHTV SRFAISYQEK VNLLSAVKSP CPKDTPEGAE LKPWYEPML GGVFQLEKGD QLSAEVNLPK YLDFAESGQV YFGVIAL |
| Predicted molecular weight | 17 kDa |
| Amino acids | 80 to 235 |

Specifications

Our **Abpromise guarantee** covers the use of **ab9740** in the following tested applications.

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

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| Applications | HPLC Functional Studies SDS-PAGE |
| Form | Lyophilized |

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 or -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution. |
| Reconstitution | Reconstitute this product in 200ul water. |

General Info

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| Function | Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. 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. |

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

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