

Datasheet for ABIN988275

**TNF alpha Protein****2** Publications[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	TNF alpha
Origin:	Human
Source:	Yeast (Pichia pastoris)
Biological Activity:	Active

## Product Details

Sequence:	VRSSSRTPSD KPVAHVVANP QAEGQLQWLN RRANALLANG VELRDNQLV PSEGLYLIYS QVLFGQGQCP STHVLLTHTI SRIAVSYQTK VNLLSAIKSP CQRETPEGAE AKPWYEPIYL GGVFQLEKGD RLSAEINRPD YLDFAESGQV YFGIIA
Characteristics:	Plate 3*10 <sup>4</sup> cell per well in 96-well plates in RPMI 1640 medium with 10%FBS for 24 h. Sub confluent cells were starved 4 h in RPMI 1640 medium with 2%FBS. Standard and Sample 2-human TNF- alpha were added and cell viability measured 24 h later by addition of CellTiter 96® AQueous Non-Radioactive Cell Proliferation Assay reagent (MTS). The ED50 for this effect is typically 0.02-0.08ng/ml.
Purity:	> 97 % by SDS-PAGE.
Endotoxin Level:	level is less than 0.1 ng per myg (1EU/myg) of TNF-alpha

## Target Details

Target:	TNF alpha
Alternative Name:	Tumor Necrosis Factor-alpha (TNF-alpha) ( <a href="#">TNF alpha Products</a> )

## Target Details

**Background:** TNF-alpha plays a major role in growth regulation, differentiation, inflammation, viral replication, tumorigenesis, and autoimmune diseases. Besides inducing hemorrhagic necrosis of tumors, TNF has been found to be involved in tumorigenesis, tumor metastasis, viral replication, septic shock, fever, inflammation, and autoimmune diseases including Crohn's disease, and rheumatoid arthritis as well as graft-versus-host disease. TNF alpha-1a is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells. Synonym: TNF-alpha. Formulation: Lyophilized from a 0.2 mym filtered solution in PBS.

**Pathways:** [NF-kappaB Signaling](#), [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [TLR Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Positive Regulation of Endopeptidase Activity](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Inflammasome](#)

## Application Details

**Restrictions:** For Research Use only

## Handling

**Format:** Lyophilized

**Storage:** -20 °C

## Publications

**Product cited in:** Thuy, Thorsén: "Glycosylation profiling of therapeutic antibodies in serum samples using a microfluidic CD platform and MALDI-MS." in: **Journal of the American Society for Mass Spectrometry**, Vol. 24, Issue 7, pp. 1053-63, (2013) ([PubMed](#)).

Fritz, Radziwill: "CNK1 promotes invasion of cancer cells through NF-kappaB-dependent signaling." in: **Molecular cancer research : MCR**, Vol. 8, Issue 3, pp. 395-406, (2010) ([PubMed](#)).