

## **PRODUCT INFORMATION**

**Target** TNFA

**Synonyms** DIF;TNF-alpha;TNFA;TNFSF2;cachexin;cachectin;TNFα

Recombinant human TNFa protein with C-terminal **Description** 

6×His tag

In Stock Delivery **Uniprot ID** P01375 **Expression Host HEK293** 

C-6×His Tag Tag

Molecular

Reconstitution

TNFα(Arg78-Leu233) 6×His tag Characterization

The protein has a predicted molecular mass of 18.1 **Molecular Weight** 

kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as **Purity** determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % -Formulation &

8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for

specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid

Storage & Shipping repeated freezing and thawing). Lyophilized proteins

are shipped at ambient temperature.

This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation.

**Background** 

including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine.

neuroprotective function of this cytokine.

Usage Research use only

Unconjugated Conjugate







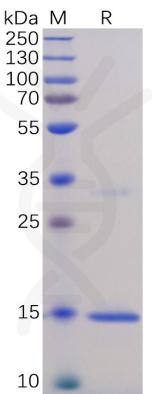


Figure 1. Human TNFα Protein, His Tag on SDS-PAGE under reducing condition.

## Human TNFa, His Tagged protein ELISA 0.1µg of Human TNFa, His Tagged protein per well

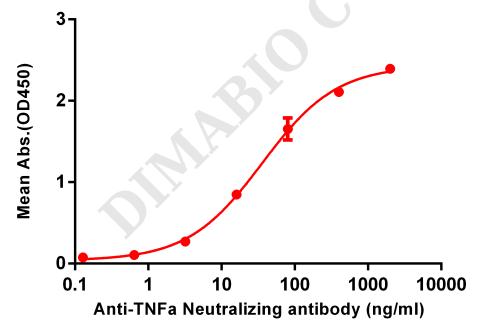


Figure 2.ELISA plate pre-coated by 1  $\mu$ g/ml (100  $\mu$ l/well) Human TNFa , His tagged protein (PME100076) can bind Anti-TNFa Neutralizing antibody ([getskuurl sku="BME100056"]) in a linear range of 0.64-16 ng/ml.

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## Human TNFα, His Tagged protein ELISA

 $0.2 \mu g$  of Human TNF $\alpha$ , His tagged protein per well

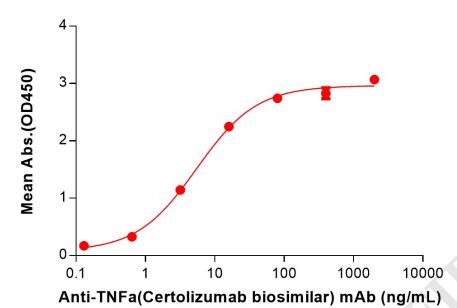


Figure 3. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human TNF $\alpha$  Protein, His Tag (PME100076) can bind Anti-TNFa(Certolizumab biosimilar) mAb (BME100183) in a linear range of 0.64–16 ng/mL.

## Human TNFα, His Tagged protein ELISA

0.2 μg of Human TNFα, His tagged protein per well

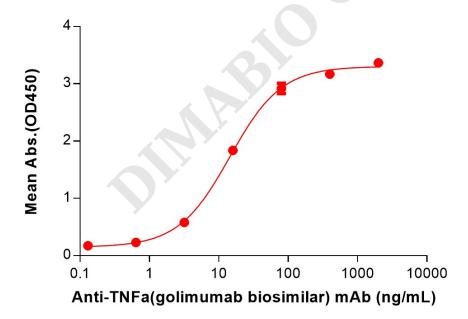


Figure 4. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human TNF $\alpha$  Protein, His Tag (PME100076) can bind Anti-TNFa(golimumab biosimilar) mAb (BME100179) in a linear range of 3.20–80 ng/mL.

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