

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

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

specific instructions of reconstitution.

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

repeated freezing and thawing). Lyophilized proteins

are shipped at ambient temperature.

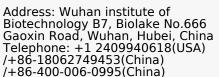
This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. This cytokine is involved in the regulation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

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.

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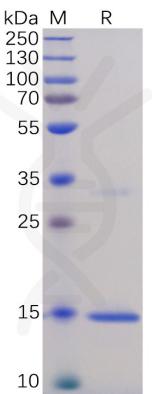


Figure 1. Human TNFα Protein, His Tag on SDS-PAGE under reducing condition.

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

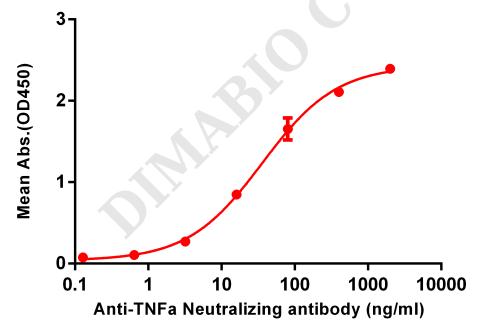


Figure 2.ELISA plate pre-coated by 1 μ g/ml (100 μ l/well) Human TNFa , His tagged protein (PME100076) can bind Anti-TNFa Neutralizing antibody ([getskuurl sku="BME100056"]) in a linear range of 0.64-16 ng/ml.

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Human TNFα, His Tagged protein ELISA

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

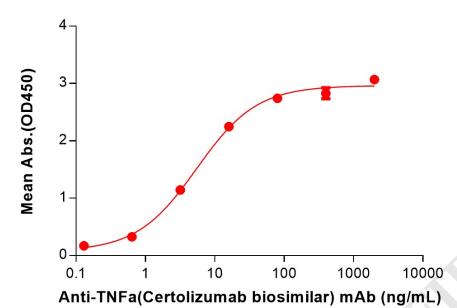


Figure 3. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human TNF α Protein, His Tag (PME100076) can bind Anti-TNFa(Certolizumab biosimilar) mAb (BME100183) in a linear range of 0.64–16 ng/mL.

Human TNFα, His Tagged protein ELISA

0.2 μg of Human TNFα, His tagged protein per well

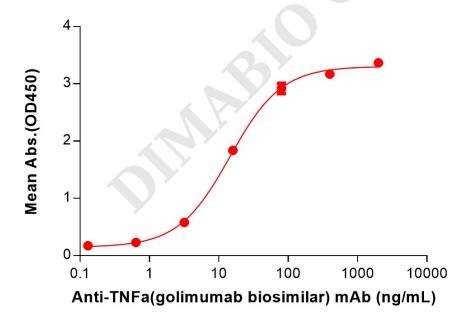


Figure 4. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human TNF α Protein, His Tag (PME100076) can bind Anti-TNFa(golimumab biosimilar) mAb (BME100179) in a linear range of 3.20–80 ng/mL.

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