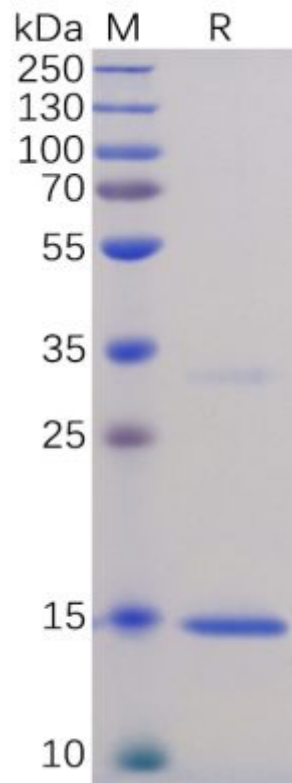


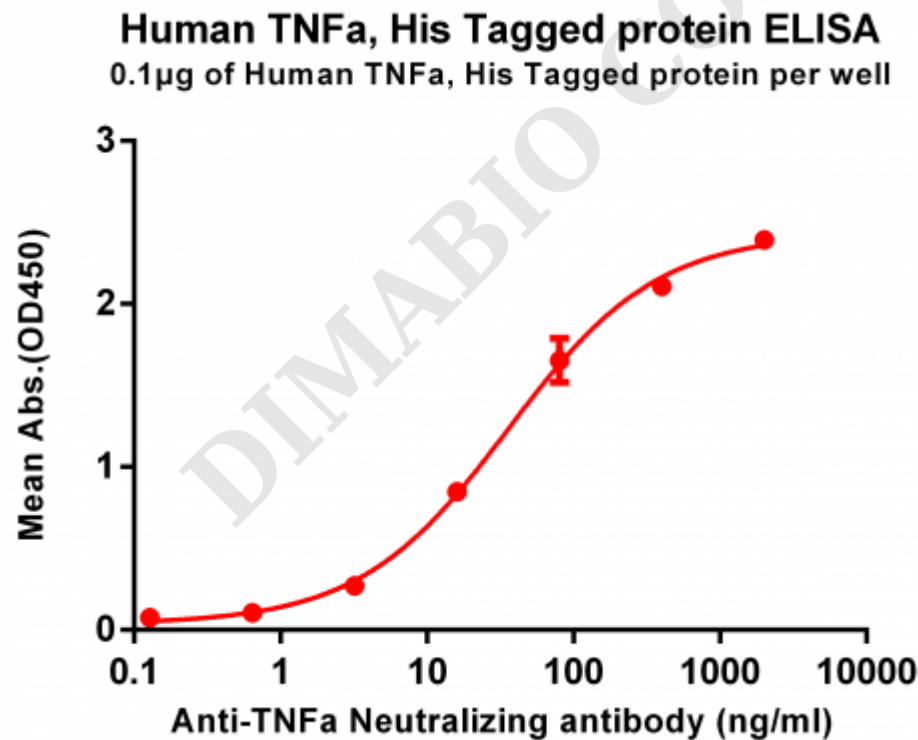
PRODUCT INFORMATION

Target	TNFA
Synonyms	DIF;TNF-alpha;TNFA;TNFSF2;cachexin;cachectin;TNFα
Description	Recombinant human TNFa protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	P01375
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	TNFα(Arg78-Leu233) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 18.1 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage & Shipping	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 repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	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/TNFR. This cytokine is involved in the regulation of a wide spectrum of biological processes 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.
Usage	Research use only





**Figure 1.** Human TNF $\alpha$  Protein, His Tag on SDS-PAGE under reducing condition.



**Figure 2.** ELISA plate pre-coated by 1  $\mu$ g/ml (100  $\mu$ l/well) Human TNF $\alpha$  , His tagged protein (PME100076) can bind Anti-TNF $\alpha$  Neutralizing antibody ([getskuurl sku="BME100056"]) 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

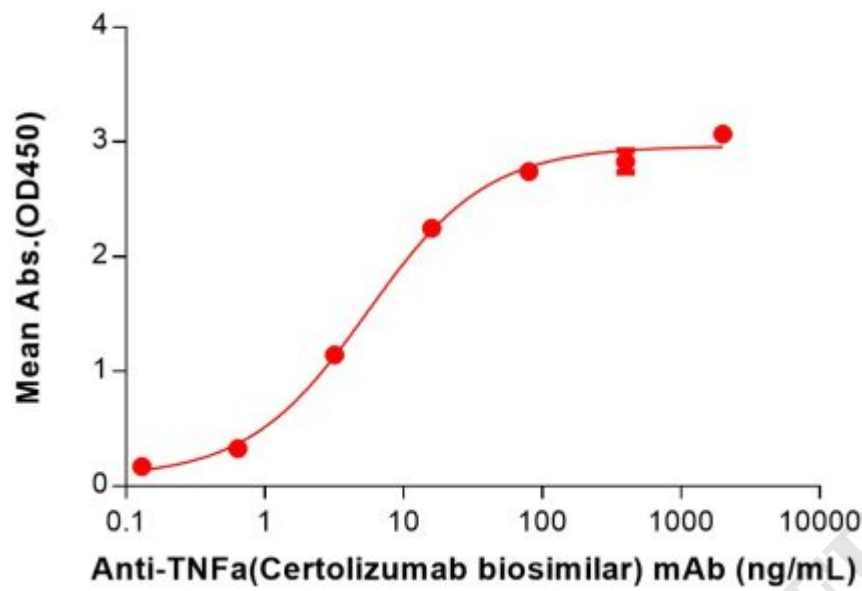


Figure 3. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human TNFα Protein, His Tag (PME100076) can bind Anti-TNFα(Certolizumab biosimilar) mAb (BME100183) in a linear range of 0.64–16 ng/mL.

**Human TNFα, His Tagged protein ELISA**  
0.2 μg of Human TNFα, His tagged protein per well

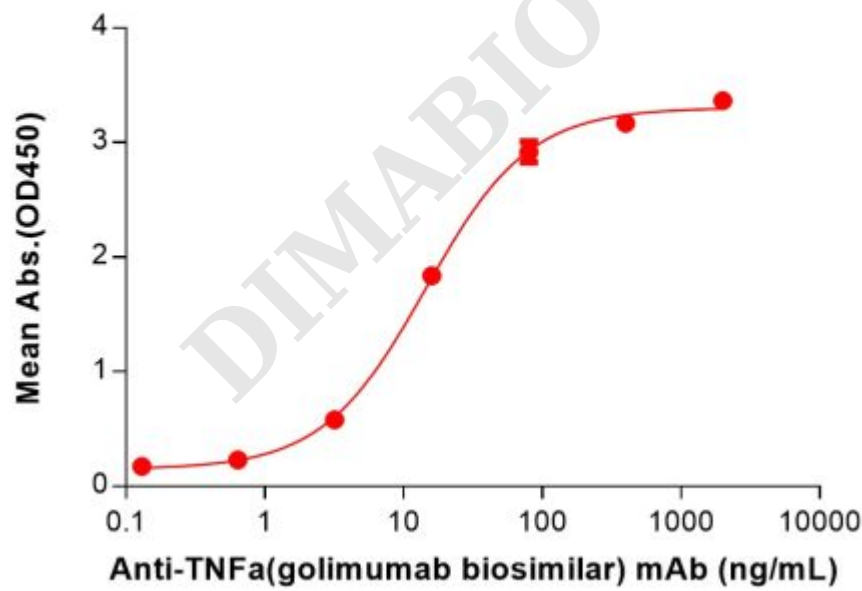


Figure 4. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human TNFα Protein, His Tag (PME100076) can bind Anti-TNFα(golimumab biosimilar) mAb (BME100179) in a linear range of 3.20–80 ng/mL.

