

## HUMAN TNFA PROTEIN, HIS TAG

货号: 11199

产品全名: 人 TNF $\alpha$  蛋白

规格: 10/50/100  $\mu$ g

基因符号 DIF;NF- $\alpha$ ;NFA;NFSF2;achexin;achectin;NFA

目标蛋白: TNFA

**UNIPROT ID:** P01375

**描述:** Recombinant human TNF $\alpha$  protein with C-terminal 6xHis tag

**背景:** 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.

**物种/宿主:** HEK293

**分子量:** The protein has a predicted molecular mass of 18.1 kDa after removal of the signal peptide.

**分子特征:** TNF $\alpha$ (Val77-Leu233) 6 $\times$ His tag

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

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**储存和运输:** Store at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at  $-80^{\circ}\text{C}$  (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

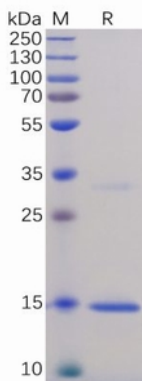


Figure 1. Human TNF $\alpha$  Protein, His Tag on SDS-PAGE under reducing condition.

**Human TNF $\alpha$ , His Tagged protein ELISA**  
0.1  $\mu$ g of Human TNF $\alpha$ , His Tagged protein per well

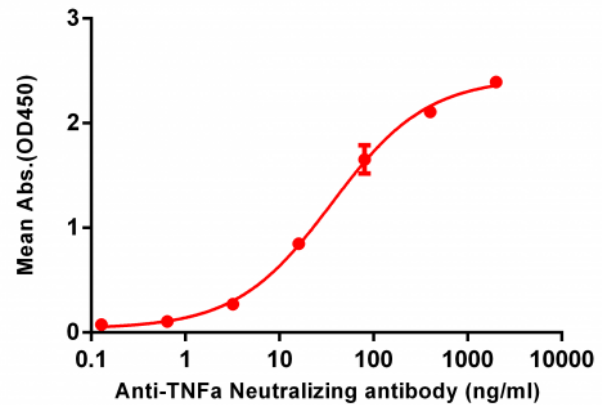


Figure 2. ELISA plate pre-coated by 1  $\mu$ g/ml (100  $\mu$ l/well) Human TNF $\alpha$ , His tagged protein (11199) can bind Anti-TNF $\alpha$  Neutralizing antibody 28064 in a linear range of 0.64-16 ng/ml.