

HUMAN TNFA PROTEIN, HIS TAG

Cat.#: 11199

Product Name: Human TNFa Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: DIF;NF- α ;NFA;NFSF2;achexin;achectin;NFA

Target: TNFA

UNIPROT ID: P01375

Description: Recombinant human TNFa protein with C-terminal 6xHis tag

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.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 18.1 kDa after removal of the signal peptide.

Molecular Characterization: TNFa(Val77-Leu233) 6xHis tag

Purity: 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.

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.

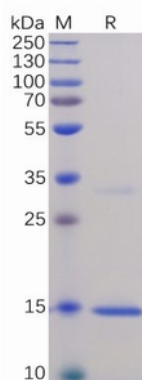


Figure 1. Human TNF α Protein, His Tag on SDS-PAGE under reducing condition.

Human TNFa, His Tagged protein ELISA

0.1 µg of Human TNFa, His Tagged protein per well

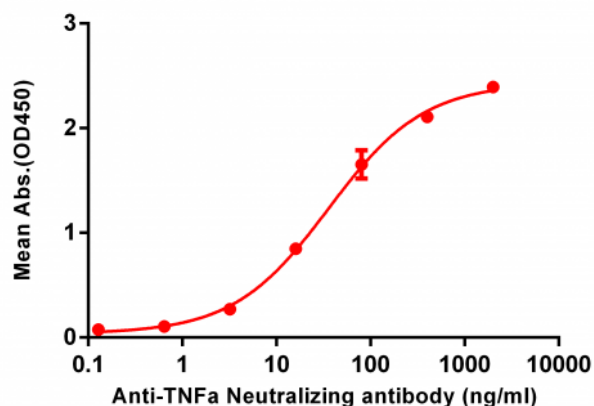


Figure 2. ELISA plate pre-coated by 1 µg/ml (100 µl/well) Human TNFa, His tagged protein (11199) can bind Anti-TNF α Neutralizing antibody 28064 in a linear range of 0.64-16 ng/ml.