Recombinant Human TNF-α Protein(Trx Tag)

Catalog Number: PDEH100543

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*
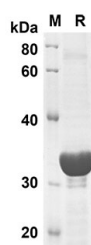
Description

Species	Human
Source	E.coli-derived Human TNF-α protein Val77-233Leu, with an N-terminal Trx
Mol_Mass	37.3 kDa
Accession	P01375
Bio-activity	Not validated for activity

Properties

Purity	＞90% as determined by reducing SDS-PAGE.
Endotoxin	＜10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at ＜-20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data

SDS-PAGE analysis of Human TNF-α proteins, 2 μg/lane of
Recombinant Human TNF-α proteins was resolved with
SDS-PAGE under reducing conditions, showing bands at
37.3 KD

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/TNFBR. 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.