A Reliable Research Partner in Life Science and Medicine

## Recombinant Human TNF-alpha/TNFA Protein

Catalog Number: PKSH033490

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

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Species Human

Source E.coli-derived Human TNF-alpha/TNFA protein Val77-Leu233

 Calculated MW
 17.5 kDa

 Observed MW
 16 kDa

 Accession
 P01375

**Bio-activity** Measured in a cytotoxicity assay using L- 929 mouse fibroblast cells in the presence

of the metabolic inhibitor actinomycin D. The  $ED_{50}$  for this effect is 10-50 pg/ml.

#### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

Endotoxin <0.01 EU per μg 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

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C 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 of 20mM PB, 6% Sucrose, 4% Mannitol,

0.05% Tween 80, pH 6.0.

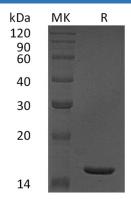
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

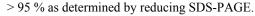
before lyophilization.

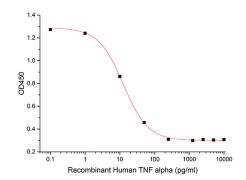
Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data







Measured in a cytotoxicity assay using L- 929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is 10-50 pg/ml.

#### Background

# Elabscience®

### Elabscience Biotechnology Co., Ltd.

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TNFα is a homotrimer with a subunit molecular mass of 17 kD cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It plays a major role in growth regulation; differentiation; inflammation; viral replication; tumorigenesis; autoimmune diseases and in viral; bacterial; fungal; and parasitic infections. Besides inducing hemorrhagic necrosis of tumors; TNF was found to be involved in tumorigenesis; tumor metastasis; viral replication; septic shock; fever; inflammation; and autoimmune diseases including Crohn's disease; and rheumatoid arthritis as well as graft-versus-host disease.