

# Human TNF $\alpha$ Mutant Recombinant Protein



RPPB1001

---

## Product Information    Protein Information

**Product SKU:**

RPPB1001

**Accession:**

P01375

**Host:**

Escherichia Coli.

**Protein description:**

Tumor Necrosis Factor- $\alpha$  Variant Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 151 amino acids and having a molecular mass of 16598 Dalton. The TNF- $\alpha$  Variant is purified by standard chromatographic techniques.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

TNF- $\alpha$ , Tumor necrosis factor ligand superfamily member 2, TNF- $\alpha$ , Cachectin, DIF, TNFA, TNFSF2.

**Formulation:**

The protein was lyophilized after extensive dialysis against 0.5x PBS pH -7.

**Purity:**

Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized Tumor Necrosis Factor- $\alpha$  Variant in sterile 18M $\Omega$ -cm H<sub>2</sub>O not less than 100 $\mu$ g/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized Tumor Necrosis Factor- $\alpha$  Variant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TNF- $\alpha$  Variant should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

**Amino Acid Sequence:**

MRKRKPVAVH VANPQAEGLQ QWLNRRANAL LANGVELRDNQLVVPSEGLY LIYSQVLFKG QGCPSTHVLL  
THTISRIAVS YQTKVNLLSA IKSPCQRETP EGAEAKPWYE PIYLGGVFQL EKGDRLSAEI NRPDYLDFAE  
SGQVYFGIIAF.

**Biological Activity:**

The ED<sub>50</sub> as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is < 0.05ng/ml, corresponding to a Specific Activity of 20,000,000 units/mg.