

## Recombinant human TNF alpha (Active,Tag free)

- Cat. Number:** ck0005
- Quantity size:** 10µg / 50ug / 500µg
- Protein Sequence:** 77-233aa, Tag free, full length mature protein
- Swiss-Prot:** P01375
- Gene ID:** 7124
- Source:** Human cells derived
- Structure:** Glycosylated homotrimer
- Purity:** >95% by SDS-PAGE
- MW:** 17kDa
- Endotoxin Level:** <0.5EU/ug
- Formulation:** Lyophilized from a 0.2µm filtered solution in PBS without carrier protein  
Animal and Xeno free
- Activity Assay:** The activity was measured by the cytotoxicity in L-929 cell in the presence of actinomycin D.
- Reconstitution:** Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.
- Stability & Storage:** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -80 °C under sterile conditions after reconstitution.
- Description:** Tumor necrosis factor alpha (TNFα) is an EGF related polypeptide growth factor that signals through the TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and also produced by monocytes, keratinocytes, and various tumor cells. TNFα stimulates the proliferation of a wide range of epidermal and epithelial cells. TNFα is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia. Under certain conditions it can stimulate cell proliferation and induce cell differentiation, impair regulatory T cells (Treg) function in individuals with rheumatoid arthritis via FOXP3

**Important Note:** *This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.*