

Active GMP Recombinant Human TNF Protein

Cat. No. TNF-01HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TNF protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	CHO
Description	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, psoriasis, rheumatoid arthritis ankylosing spondylitis, tuberculosis, autosomal dominant polycystic kidney disease, and cancer. Mutations in this gene affect susceptibility to cerebral malaria, septic shock, and Alzheimer disease. Knockout studies in mice also suggested the neuroprotective function of this cytokine.
Form	Lyophilized powder
Endotoxin	<20 EU/mg
Bio-activity	>3.0 x 10 ⁷ IU/mg

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Purity	>98.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)
Storage	Stable storage at 4°C for 7-10 days; for long-term storage, please store at -20°C after dispensing.
Sterility	Sterility
Instructions	It is recommended that lyophilized GMP rhTNF be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 µg/ml, pending further dilution to working concentration.

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [Homo sapiens (human)]
Official Symbol	TNF
Synonyms	DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha
Gene ID	7124
mRNA Refseq	NM_000594.4
Protein Refseq	NP_000585.2
UniProt ID	P01375
MIM	191160

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