

## BOSTER BIOLOGICAL TECHNOLOGY Co.,Ltd.

3942 B Valley Ave, Pleasanton, CA, 94566

Phone: 888-466-3604 Fax: 925-215-2184 Email: boster@bosterbio.com Web: www.bosterbio.com

# Recombinant Human TNF alpha Protein

CAT. NO: R00002

Size: 100µg

#### Description

Tumor necrosis factor (TNF, tumor necrosis factor alpha, TNFα, cachexin, or cachectin) is a cell signaling protein (cytokine) involved insystemic inflammation and is one of the cytokines that make up the acute phase reaction. It produced chiefly activated by macrophages, although it can produced by many other cell types such as CD4+ lymphocyts, NK cells, neutrophils, mast cells, eosinophils, and neurons. The primary role of TNF is in the regulation of immune cells. TNF, being an endogenous pyrogen, is able to induce fever, apoptotic cell death, cachexia, inflammation and to inhibit tumorigenesis andviral replicatin and respond to sepsis via IL1 & IL6 producing cells. Dysregulation of TNF production has been implicated in a variety of human diseases including Alzheimer's disease. cancer. major depression, psoriasisand inflammatory bowel disease (IBD). Though controversial, studies of depression and IBD are currentlybeing linked to TNF levels. Recombinant TNF is used as an immunostimulant under the INN tasonermin. TNF can be produced ectopically in the setting of malignancy and parallels parathyroid hormone both in causing secondary hypercalcemia and in the cancers with which excessive

production is associated.

# Amino Acid Sequence:

VRSSS RTPSD KPVAH VVANP QAEGQ LQWLN RRANA LLANG VELRD NQLVV PSEGL YLIYS QVLFK GQGCP STHVL LTHTI SRIAV SYQTK VNLLS AIKSP CQRET PEGAE AKPWY EPIYL GGVFQ LEKGD RLSAE INRPD YLDFA ESGQV YFGII AL

Source: E. coli Val77-Leu233

**Species:** human

**Purity:** >95%, by SDS-PAGE quantitative densitometry by Coomassie® Blue Staining.

Molecular Weight: 17.3KD

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstitute in  $ddH_2O$  at 100  $\mu$ g/mL.

**Endotoxin:** Less than 1 EU/µg of TNF alpha as determined by LAL method.

## Storage:

Lyophilized recombinant human TNF alpha remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhTNF alpha remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.