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## Product Data Sheet

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Product Name: TNF  $\alpha$  Rat, His

Cat. No.: GP20971

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tumor Necrosis Factor-alpha; TNF $\alpha$ His; Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF- $\alpha$ ; N-terminal fragment; NTF; Intracellular domain 1; Intracellular domain 2; ICD2; C-domain 1; C-domain 2; Tumor necrosis factor; soluble form; Tnfa; Tnfsf2; RATTNF; Tnfa.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMLRSSS QNSSDKPVAH VVANHQAEEQ LEWLSQRANA LLANGMDLKD NQLVVPADGL YLIYSQVLFK GQGCPDYVLL THTVSRFAIS YQEKVSLLSA IKSPCPKDTPEGAELKPWYE PMYLGGVFQL EKGDLLSAEV NLPKYLDITE SGQVYFGVIA L.		
Formulation	TNF $\alpha$ protein solution (1mg/ml) containing Phosphate Buffer Saline (pH7.4), 10% glycerol and 1mM DTT.		

**Introduction**

Tumor necrosis factor is a cytokine involved in systemic inflammation and is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is mainly secreted by macrophages. TNF causes apoptotic cell death, cellular proliferation, differentiation, inflammation, tumorigenesis and viral replication, TNF is also involved in lipid metabolism, and coagulation. TNF's primary role is in the regulation of immune cells. Dysregulation and, in particular, overproduction of TNF have been implicated in a variety of human diseases- autoimmune diseases, insulin resistance, and cancer.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

TNF a Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 181 amino acids (80-235a.a.) and having a molecular mass of 19.9kDa. TNF a is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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