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Tnf Recombinant Rat Tumor Necrosis Factor alpha

Catalog No. CRT102A Quantity: 5 µg

CRT102B 20 μg CRT102C 1.0 mg

Alternate Names: TNF-alpha, Cachetin

Description: Tumor necrosis factor (TNF) is 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/TNFBR. 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, and cancer.

Gene ID: 24835

UniProt ID: P16599

Source: E. coli

Molecular Weight: 17.3 kDa (157 aa), monomer

Formulation: Lyophilized from a sterile-filtered aqueous solution containing 10 mM sodium phosphate

and 50 mM sodium chloride, pH 7.5.

Purity: ≥ 95% by reducing and non-reducing SDS-PAGE.

Endotoxin Level: ≤1 EU/µg of protein by kinetic LAL analysis.

Biological Activity: Typical ED₅₀ \leq 50 pg/ml, determined by the cytolysis of mouse L929 cells in the presence

of Actinomycin D.

Amino Acid Sequence: MLRSSSQNSS DKPVVHVVAN HQAEEQLEWLN GMDLKDNQLV VPADGLYLIY

SQVLFKGQGC PDYVLLTHTV SRFATSYQEK VSLLSAIKSP CPKDTPEGAE LKPWYEPMYL GGVSQLEKGD LLSAEVNLPK YLDITESGQV YFGVIAL

Reconstitution: Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1

mg/ml. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further

E-mail: info@cellsciences.com

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dilutions should be made in appropriate buffered solutions.

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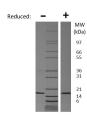
Phone: 978-572-1070

Fax: 978-992-0298

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Storage & Stability:

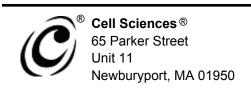
Lyophilized product is stable at room temperature for shipping purposes. After receipt, store at ≤20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application employed. **Avoid repeated freeze/thaw cycles.**



Rat TNF-alpha Gel

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Rat TNF-alpha is predicted to have a MW of 17.3 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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Website: <u>www.cellsciences.com</u>

E-mail: info@cellsciences.com