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# Recombinant Rat TNF-α Protein(hlgG1 Fc Tag)

Catalog Number: PDMR100107

Note: Centrifuge before opening to ensure complete recovery of vial contents.

# Description

**Species** Rat

Source Mammalian-derived Rat TNF-α proteins Leu80-Leu235, with an C-terminal hIgG1 Fc

Calculated MW42.0 kDaObserved MW45 kDaAccessionP16599

**Bio-activity** Not validated for activity

## **Properties**

**Purity** > 80% as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU/mg of the protein as determined by the LAL method

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

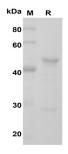
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of

0.5 mg/mL. Concentration is measured by UV-Vis.

#### Data



SDS-PAGE analysis of Rat TNF-α proteins, 2µg/lane of Recombinant Rat TNF-α proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 45 KD

#### Background

Tumor necrosis factor alpha (TNF-alpha), also known as TNF, TNFA or TNFSF2, is the prototypic cytokine of the TNF superfamily, and is a multifunctional molecule involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. Two receptors, TNF-R1 (TNF receptor type 1; CD120a; p55/60) and TNF-R2 (TNF receptor type 2; CD120b; p75/80), bind to TNF-alpha. TNF-alpha protein is produced mainly by macrophages, and large amounts of this cytokine are released in response to lipopolysaccharide, other bacterial products, and Interleukin-1 (IL-1). TNF-alpha is involved in fighting against the tumorigenesis, thus, is regarded as a molecular insight in cancer treatment.

## For Research Use Only

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