

Recombinant Protein Technical Manual Recombinant Rat TNF-alpha/TNFA Protein (Active)

RPES3826

Product Data:

Product SKU: RPES3826 Size: 5μg

Species: Rat Expression host: E. coli

Uniprot: P16599

Protein Information:

Molecular Mass: 17.4 kDa

AP Molecular Mass: 15 kDa

Tag:

Bio-activity: Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the

presence of metabolic inhibitor actinomycin D.

The ED50 for this effect is typically 20-80 pg/ml.

Purity: > 93 % as determined by SDS-PAGE

Endotoxin: Please contact us for more information.

Storage: 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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application: Cell Culture

Synonyms: Tnf;MGC124630;RATTNF;TNF-alpha;Tnfa

Immunogen Information:

Sequence: Leu 80-Leu 235

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 (IL). TNF-alpha is involved in fighting against the tumorigenesis, thus, is regarded as a molecular insight in cancer treatment.