For research use only

Recombinant Rat TNF-α

CATALOG #: 1052-10

AMOUNT: 10 µg

LOT #: _____

SOURCE: *E. coli*

PURITY: >98% by SDS-PAGE and HPLC analyses.
Endotoxin level is <0.1 ng per µg of TNF-α.

MOL. WEIGHT: 17.0 kDa

FORMULATION: Sterile filtered and lyophilized from 1X PBS

RECONSTITUTION:
We recommend a quick spin followed by reconstitution in water to a concentration of 0.1 – 1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or –20°C for future use.

STORAGE CONDITIONS:
The lyophilized TNF-α is best-stored desiccated below 0°C. Reconstituted TNF-α should be stored at working aliquots at -20°C.

DESCRIPTION:
Tumor Necrosis Factor-alpha (TNF-α) is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells. Rat TNF-α is a 17 kDa protein containing 157 amino acid residues.

BIOLOGICAL ACTIVITY:
The ED_{50} as determined by the cytolysis of murine L929 cells in the presence of actinomycin D is $\leq$ 0.05 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^7$ units/mg.

RECOMMENDED USAGE:
For most *in vitro* applications, TNF-α exerts its biological activity in the concentration range of 0.5 to 20 ng/ml.

OTHER KEY PRODUCTS OFFERED:

1. KinaseSTAR™ JNK & Akt Activity Assay Kit
2. Histone Deacetylase Fluorometric & Colorimetric Assay Kits
3. Calpain Activity Assay Kit
4. Apoptotic Cell Isolation Kit
5. MitoCapture™ Mitochondrial Apoptosis Detection Kit
6. Mitochondria/Cytosol Fractionation Kit
7. Nuclear/Cytosol Fractionation Kit
8. Cytochrome c Releasing Apoptosis Assay Kit
9. ApoSENSOR™ ATP Determination Kit & ADP/ATP Ratio Assay Kit
10. ApoGSH™ Glutathione Detection Kit
11. Nitric Oxide Fluorometric & Colorimetric Detection Kits
12. Annexin V-FITC, -Cy3, -Cy5, -EGFP, -PE, -Biotin Kits and Bulk Reagents
13. CaspSCREEN™ Flow Cytometric Caspase Assay Kit
14. CaspGLOW™ Active Caspase Staining Kits
15. CaspSELECT™ Caspase-3 & -7 Immunoassay Kits
16. Caspase-1,-2,-3,-5,-6,-8,-9,-10 Activity Assay Kits
17. Recombinant Human, Mouse, Rat Active Caspases & Procaspases
18. Ready-to-use Caspase Inhibitors & Sets
19. Ready-to-use Caspase Substrates and Sets
20. Quick Apoptotic DNA Ladder Detection Kit
21. TUNEL-based DNA Fragmentation Assay Kits
22. Ready-to-use Apoptosis Inducers and Set
23. Quick Cell Proliferation Assay Kit
24. LDH-Cytotoxicity Assay Kit
25. Live-Dead Cell Staining Kit
26. Anti-Caspase-1,-2,-3,-4,-5,-6,-7,-8,-9,-10,-11,-12,-13,-14 & Active Caspases
27. Anti-Apaf-1, Bcl-2, Bcl-x, Bax, Bad, Bid, Bim/Bod, Mcl-1, Cytochrome c
28. Anti-DFF40, DFF45, FADD, p53, IRAK, Wee1, CD40, DcR2, cFLIP, CTGF
29. Many Other Apoptosis & Cell Signaling Related Antibodies
30. Growth Factors, Cytokines & Chemokines (many)
31. Link-FAST™ 5 Minutes DNA Ligation Kit
32. Gel-FAST™ 20 Minutes Gel Staining/Destaining Kit
31. Protease Inhibitor Cocktail