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## Mouse TNF alpha Recombinant Protein Carrier-Free

Catalog Number: 34-8321


Also Known As: Tumor Necrosis Factor alpha, TNFa TNF-a

RUO: For Research Use Only

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### Product Information

Contents: Mouse TNF alpha Recombinant Protein Carrier-Free

 Catalog Number: 34-8321

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in sterile environment.

Source: E. coli expressed amino acids Leu 80-Leu 235 of mouse TNF- $\alpha$  (accession # NM\_013693).

Molecular Mass: The protein is not methionylated at the N-terminal and has a predicted molecular mass of 17,258. The DTT-reduced and non-reduced protein migrate as 17 kDa polypeptides on SDS-PAGE.

Purity: Greater than 98%, as determined by SDS-PAGE

Endotoxin Level: Less than 0.01 ng/ $\mu$ g cytokine as determined by the LAL assay.

Bioactivity: The ED50 of this protein, as measured by L929 cytotoxicity assay, is less than or equal to 25 pg/mL. This corresponds to a specific activity of greater than or equal to 4 x 10<sup>7</sup> Units/mg.

Formulation: Sterile liquid; 10 mM sodium phosphate, pH 7.2, 0.22  $\mu$ m filtered.



Temperature Limitation: Store at less than or equal to -70°C.



Batch Code: Refer to Vial



Use By: Refer to Vial

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### Description

Mouse TNF- $\alpha$  is a 17 kDa factor produced by macrophages, monocytes, neutrophils, CD4<sup>+</sup> T cells and NK cells. A 26 kDa form of TNF- $\alpha$  is expressed as a membrane-bound molecule. TNF- $\alpha$  is cytolytic and plays an important role in immune regulation. Dimers and trimers of TNF- $\alpha$  have been observed.

### Applications Reported

Recombinant mouse TNF- $\alpha$  is biologically active and can induce cytolysis of the L929 mouse cell line in culture.

### Applications Tested

The ED50 of this protein, as measured by L929 cytotoxicity assay, is less than or equal to 25 pg/mL. This corresponds to a specific activity of greater than or equal to 4 x 10<sup>7</sup> Units/mg.

### Related Products

88-7234 Mouse IL-23 ELISA Ready-SET-Go!®

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