
Human TNF alpha Recombinant Protein Carrier-Free


Catalog Number: 34-8329

Also Known As: Tumor Necrosis Factor alpha

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Human TNF alpha Recombinant Protein Carrier-Free

 **Catalog Number:** 34-8329

Concentration: 0.5 mg/mL

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

Source: E. coli expressed amino acids Val 77-Leu 233 of human TNF alpha accession # HUMTNFAB, N-terminal His-tag

Molecular Mass: 19 kDa

Purity: > 98%, as determined by SDS-PAGE

Endotoxin Level: Less than 0.01 ng/ug 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 80 pg/mL. This corresponds to a specific activity of greater than or equal to 1.3 x 10⁷ Units/mg.

Formulation: Sterile liquid; 10 mM sodium phosphate, pH 7.2, 0.22 um filtered.

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

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

Human TNF alpha is a 17 kDa factor produced by macrophages, monocytes, neutrophils, CD4+ 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 human TNF alpha is biologically active and can induce cytolysis of L929 mouse cell line in culture. It is also used as standard in human TNF- α ELISA.

Applications Tested

The ED50 of this protein, as measured by L929 cytotoxicity assay, is less than or equal to 80 pg/mL. This corresponds to a specific activity of greater than or equal to 1.3 x 10⁷ Units/mg.

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