

Datasheet

Recombinant Human TNF alpha

CARRIER-FREE

Catalog Number: PR15016CF

Product Type: Recombinant protein

Source: A DNA sequence encoding the mature human TGF- α protein sequence (Derynck, R. *et al.*, 1984, Cell **38**:287 - 297) was expressed in *E. coli*.

Molecular Mass: The 50 amino acid residue recombinant protein has a predicted molecular mass of approximately 6 kDa.

Purity: > 97%, as determined by SDS-PAGE and visualized by silver stain.

Endotoxin Levels: < 0.1 ng per 1 μ g of the cytokine as determined by the LAL method.

Activity: The biological activity of recombinant TGF- α was measured by its ability to stimulate 3 H-thymidine incorporation in the EGF-responsive mouse fibroblast cell line, Balb/3T3 (Marquardt, H. *et al.*, 1984, Science **223**:1079 - 1082).

The ED₅₀ for this effect is typically 0.1 - 0.4 ng/mL.

Format: Lyophilized from a solution in 20% acetonitrile plus 0.1% TFA.

Reconstitution: It is recommended that sterile 10 mM acetic acid containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 10 μ g/mL of the cytokine.

Storage: Lyophilized samples are stable for up to six months at -20° C to -70° C.

Upon reconstitution, this cytokine, in the presence of a carrier protein, can be stored under sterile conditions at 2 - 8° C for one month or at -20° C to -70° C in a **manual defrost freezer** for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles.