

Tumor Necrosis Factor alpha (TNF- α)

CATALOG NUMBER: TNF-A3-025P, 25 μ g

Introduction	<p>Tumor necrosis factor alpha (TNFα) is a cytokine involved in systemic inflammation and is a member of a group of cytokines that stimulate the acute phase reaction.</p> <p>Human TNF-α is a 17.4kD factor produced by macrophages, monocytes, neutrophils, CD4+ T cells and NK cells. A 26kD form of TNF-α is expressed as a membrane bound molecule. TNF-α is cytolytic and plays an important role in immune regulation. Dimers and trimers of TNF-α have been observed.</p>
Description	<p>Recombinant human TNF-α produced in yeast is a single, glycosylated, polypeptide chain containing 157 amino acids, two pairs of disulfide bonds and having a molecular mass of approximately 17.4kD.</p>
Source	<p>Yeast</p>
Purity	<p>\geq 97% purity (by SDS PAGE and HPLC)</p>
Endotoxin Level	<p>\leq1 EU/mg, determined by the LAL method</p>
Biological Activity	<p>Measured in a cell apoptosis assay using L929 cell line. The specific activity shall be not less than 5×10^7 IU/mg</p>
Formulation	<p>Sterile lyophilized powder, in PBS containing 0.1% human serum albumin, pH7.4.</p> <p>Reconstitute with double distilled water at a concentration of no less than 100 μg/ml with 0.1% human serum albumin (A highly purified plant-derived human serum albumin is strongly suggested to be used, Cat# HAS-1r) or bovine serum albumin as a stock.</p>
Storage	<p>Stable for 6-months from the date of shipment when kept at -20 $^{\circ}$C or -70 $^{\circ}$C. Upon reconstitution, it can be stored at 4 $^{\circ}$C for at least one month or -20 $^{\circ}$C for at least three months. Avoid repeated freeze-thaw cycles.</p>
Usage	<p>This product is produced for LABORATORY RESEARCH USE ONLY.</p>

