

Rev03
Update: Dec,14,2021

DATASHEET

TNF- β , Human

Cat. No.: Z03375

Product Introduction

Species	Human
Protein Construction	TNF-β (Leu35-Leu205) Accession # P01374
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/ μ g of protein by gel clotting method
Biological Activity	ED ₅₀ < 4.0 pg/ml, measured in a cytotoxicity assay using L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D, corresponding to a specific activity of > 2.5 \times 10 ⁸ units/mg.
Expression System	E. coli
Apparent Molecular Weight	~18.6 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μ g/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Target Background : TNF is secreted by macrophages, monocytes, neutrophils, T-cells, NK-cells following their stimulation by bacterial LPS. Cells expressing CD4 secrete TNF-alpha while CD8 cells secrete little or no TNF-alpha. The synthesis of TNF-alpha is induced by many different stimuli including interferons, IL2, GM-CSF. TNF- β is a potent mediator of inflammatory and immune responses. It belongs to the TNF family of ligands, and signals through TNFR1 and TNFR2. TNF- β is produced by activated T and B lymphocytes, and has similar activities to TNF- α . It mediates a large variety of inflammatory, immunostimulatory, and antiviral responses.

Synonyms : LTA; LT; TNFB; TNFSF1; Lymphotoxin alpha; TNLG1E; LT- α ; tumor necrosis factor-beta

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.