

Rev02
Update: Aug,08,2025

DATASHEET

TNF alpha, His & Avi, Human

Cat. No.: Z05891

Product Introduction

Species	Human
Protein Construction	TNF alpha (Val77-Leu233) _x000D_ Accession # P01375 His Avi N-term C-term
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized TNF alpha, His & Avi, Human at 5µg/ml (100µl/well) on the plate can bind Human TNFR2, mFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	20.3 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 21-25 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target Background : Tumor necrosis factor alpha (TNF-alpha), also known as cachectin and TNFSF2, is the prototypic ligand of the TNF superfamily. It is a pleiotropic molecule that plays a central role in inflammation, immune system development, apoptosis, and lipid metabolism. Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR2. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia. Under certain conditions it can stimulate cell proliferation and induce cell differentiation.

Synonyms : APC1 protein; Cachectin; DIF; TNF; TNFalpha; TNFATNF; TNFSF1A; TNFSF2; TNFA; TNFα; DIF; TNFSF2; TNF-alpha

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China