

Rev02
 Update: Aug,08,2025
DATASHEET

TNF alpha, His, Cynomolgus

Cat. No.: Z04927

Product Introduction

Species	Cynomolgus				
Protein Construction	<table border="1"> <tr> <td>His</td> <td>TNF alpha (Val77-Leu233) Accession # P79337</td> </tr> <tr> <td>N-term</td> <td>C-term</td> </tr> </table>	His	TNF alpha (Val77-Leu233) Accession # P79337	N-term	C-term
His	TNF alpha (Val77-Leu233) Accession # P79337				
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, Cynomolgus at 1µg/ml (100µl/well) on the plate can bind Human TNFR1, hFc Tag. Test result was comparable to standard batch.				
Expression System	HEK293				
Theoretical Molecular Weight	18.35 kDa				
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 19-25 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

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