

Rev02
 Update: Aug,08,2025
DATASHEET

TNF alpha, His, Ferret

Cat. No.: Z04960

Product Introduction

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| Species | Ferret |
| Protein Construction | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> TNF alpha (Val77-Leu233) Accession # A3FBF1 </div> <div style="background-color: #76b82a; color: white; padding: 5px; text-align: center;"> His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> N-term C-term </div> |
| 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, Ferret at 2µg/ml (100µl/well) on the plate can bind Human TNFR2, hFc Tag. Test result was comparable to standard batch. |
| Expression System | E.coli |
| Theoretical Molecular Weight | 18.88 kDa |
| Apparent Molecular Weight | The protein has a predicted MW of 18.88 kDa same as 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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