

Rev02  
 Update: Aug,08,2025
**DATASHEET**

# TNF alpha, Ferret

Cat. No.: Z04959

## Product Introduction

<b>Species</b>	Ferret
<b>Protein Construction</b>	TNF alpha (Val77-Leu233) Accession # A3FBF1
<b>Purity</b>	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized TNF alpha, Ferret at 1µg/ml (100µl/well) on the plate can bind Human TNFR2, hFc Tag. Test result was comparable to standard batch.
<b>Expression System</b>	E.coli
<b>Theoretical Molecular Weight</b>	17.21 kDa
<b>Apparent Molecular Weight</b>	The protein has a predicted MW of 17.21 kDa same as Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	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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