### Cynomolgus TNF alpha Protein

Cat. No. TNF-CM10A



Description	
Source	Recombinant Cynomolgus TNF alpha Protein is expressed from HEK293 with His tag at the N-Terminus.
	It contains Val77-Leu233.
Accession	P79337
Molecular Weight	The protein has a predicted MW of 18.35 kDa. Due to glycosylation, the protein migrates to 19-25 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

### Formulation and Storage

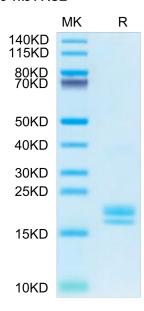
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

### **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/TNFBR. 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.

### **Assay Data**

### **Bis-Tris PAGE**

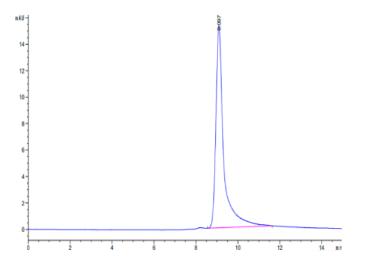


Cynomolgus TNF alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC** 

# KAGTUS

## **Assay Data**

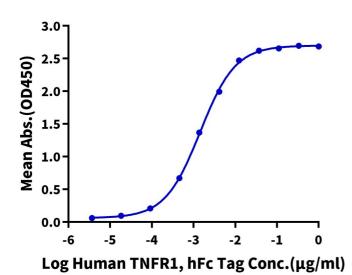


The purity of Cynomolgus TNF alpha is greater than 95% as determined by SEC-HPLC.

### **ELISA Data**

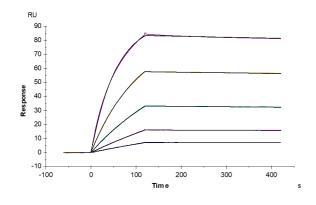
# Cynomolgus TNF alpha, His Tag ELISA

0.1μg Cynomolgus TNF alpha, His Tag Per Well



Immobilized Cynomolgus TNF alpha, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human TNFR1, hFc Tag with the EC50 of 1.4ng/ml determined by ELISA (QC Test).

#### **SPR Data**



Cynomolgus TNFR1, His Tag immobilized on CM5 Chip can bind Cynomolgus TNF alpha, His Tag with an affinity constant of 0.23 nM as determined in SPR assay (Biacore T200).