

# Cynomolgus TNFR1/CD120a/TNFRSF1A Protein

Cat. No. TNF-CM1R1

## Description

<b>Source</b>	Recombinant Cynomolgus TNFR1/CD120a/TNFRSF1A Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu30-Thr211.
<b>Accession</b>	A0A7N9CVF2
<b>Molecular Weight</b>	The protein has a predicted MW of 21.62 kDa. Due to glycosylation, the protein migrates to 32-42 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

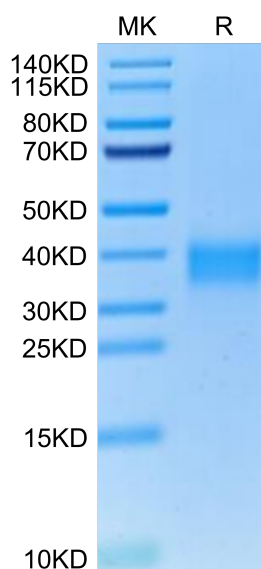
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Tumour necrosis factor alpha (TNF- $\alpha$ ) is a pleiotropic cytokine with both injurious and protective functions, which are thought to diverge at the level of its two cell surface receptors, TNFR1 and TNFR2. In the setting of acute injury, selective inhibition of TNFR1 is predicted to attenuate the cell death and inflammation associated with TNF- $\alpha$ , while sparing or potentiating the protective effects of TNFR2 signalling.

## Assay Data

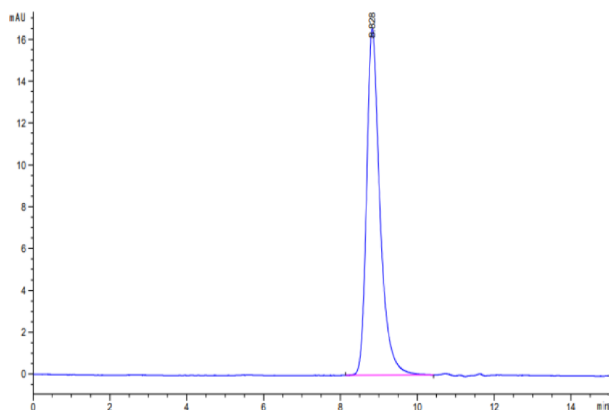
### Bis-Tris PAGE



Cynomolgus TNFR1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

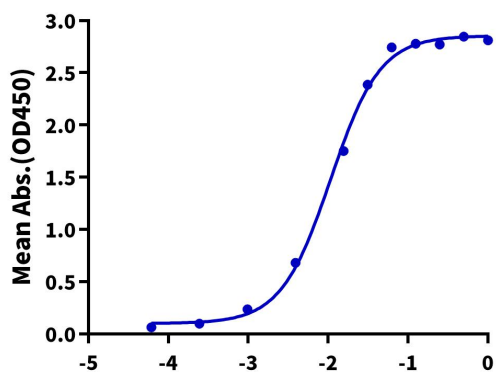


The purity of Cynomolgus TNFR1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

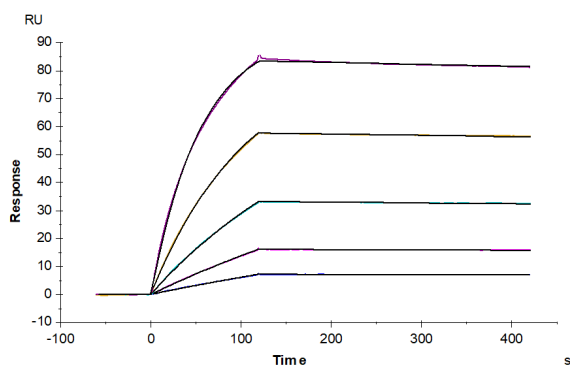
**Cynomolgus TNFR1, His Tag ELISA**

0.2µg Cynomolgus TNFR1, His Tag Per Well



Immobilized Cynomolgus TNFR1, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human TNF alpha, His Tag with the EC50 of 10.7ng/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).