

# 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 Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

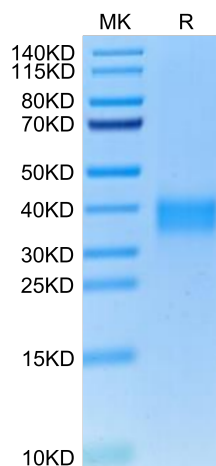
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Tumour necrosis factor alpha (TNF-α) 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-α, while sparing or potentiating the protective effects of TNFR2 signalling.

## Assay Data

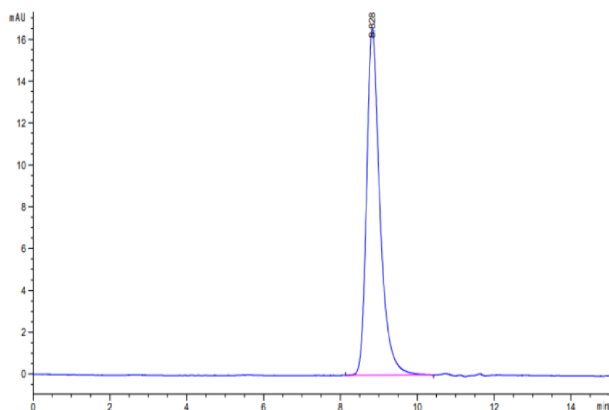
### Tris-Bis PAGE



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

### SEC-HPLC

Assay Data

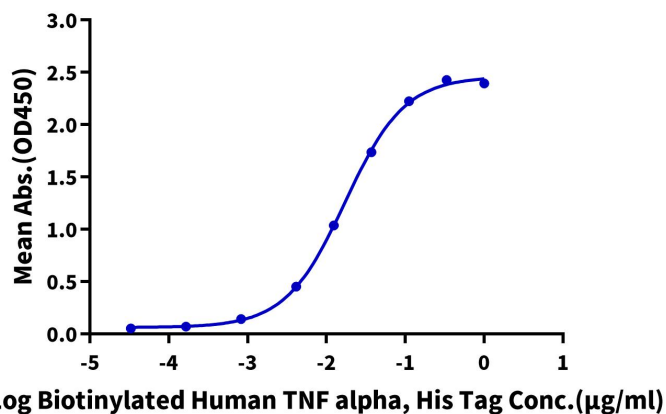


The purity of Cynomolgus TNFR1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

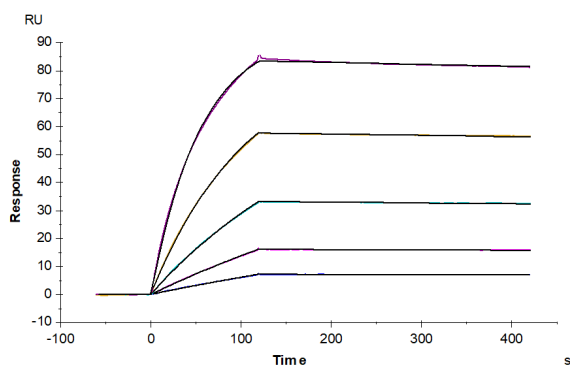
**Cynomolgus TNFR1, His Tag ELISA**

0.1µg Cynomolgus TNFR1, His Tag Per Well



Immobilized Cynomolgus TNFR1, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human TNF alpha, His Tag with the EC50 of 17.2ng/ml determined by ELISA.

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).