

Cynomolgus TNFR1/CD120a/TNFRSF1A Protein

Cat. No. TNF-CM1R1

Description

Source	Recombinant Cynomolgus TNFR1/CD120a/TNFRSF1A Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu30-Thr211.
Accession	A0A7N9CVF2
Molecular Weight	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.
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

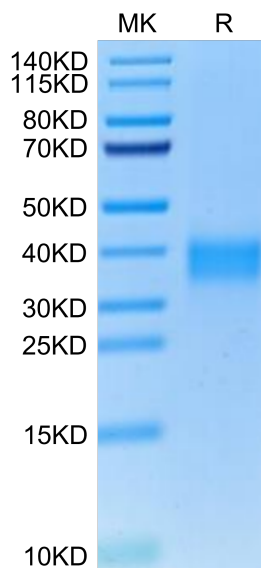
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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-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

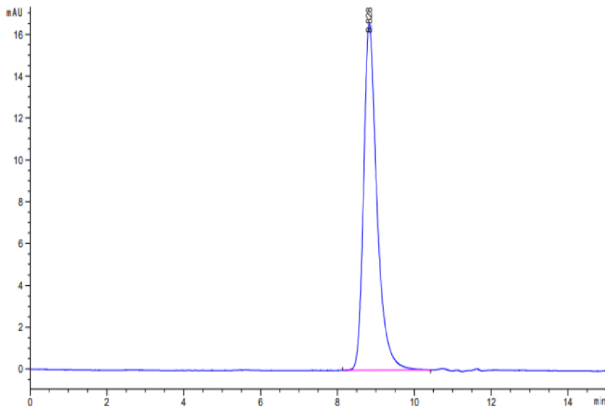
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

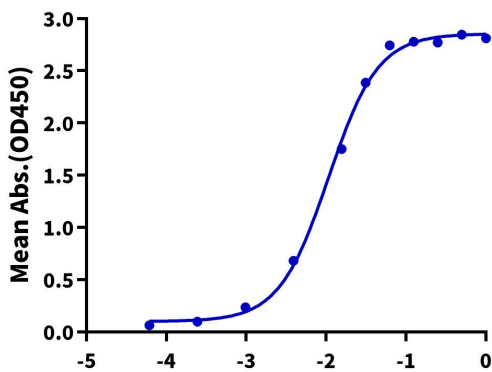


The purity of Cynomolgus TNFR1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Cynomolgus TNFR1, His Tag ELISA

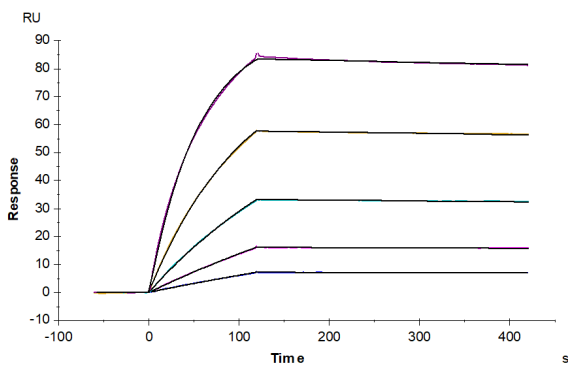
0.2µg Cynomolgus TNFR1, His Tag Per Well



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).

Log Biotinylated Human TNF alpha, His Tag Conc.(µg/ml)

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).