

# Human TNFR1/CD120a/TNFRSF1A Protein

Cat. No. TNF-HM2R1

## Description

Source	Recombinant Human TNFR1/CD120a/TNFRSF1A Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Leu30-Thr211.
Accession	P19438-1
Molecular Weight	The protein has a predicted MW of 48 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU 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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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

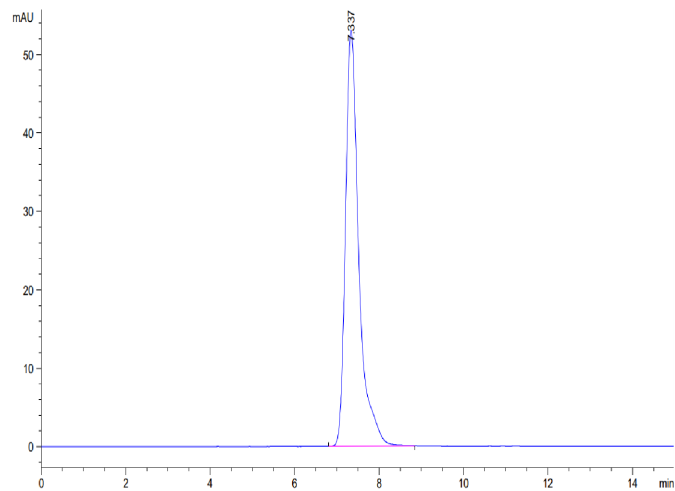
### Bis-Tris PAGE



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

### SEC-HPLC

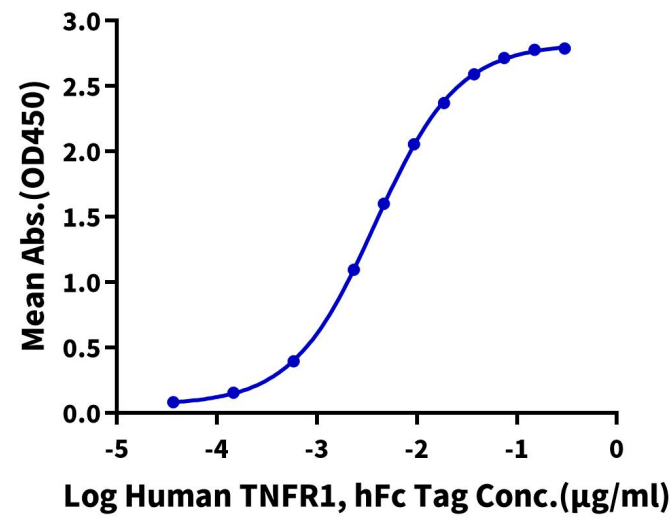
Assay Data



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

ELISA Data

**Human TNFR1, hFc Tag ELISA**  
0.1µg Human TNF alpha, His Tag Per Well



Immobilized Human TNF alpha, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human TNFR1, hFc Tag with the EC50 of 3.8ng/ml determined by ELISA.