Human TNFR1/CD120a/TNFRSF1A Protein

Cat. No. TNF-HM1R1

Description

Source	Recombinant Human TNFR1/CD120a/TNFRSF1A Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Leu30-Thr211.
Accession	P19438-1
Molecular Weight	The protein has a predicted MW of 23.3 kDa. Due to glycosylation, the protein migrates to 38-48 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

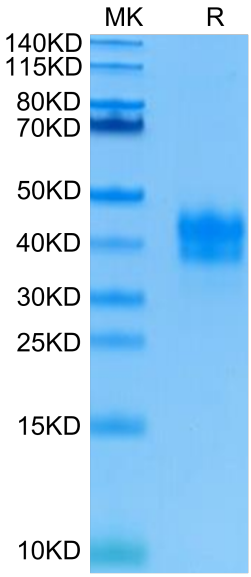
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled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



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

SEC-HPLC

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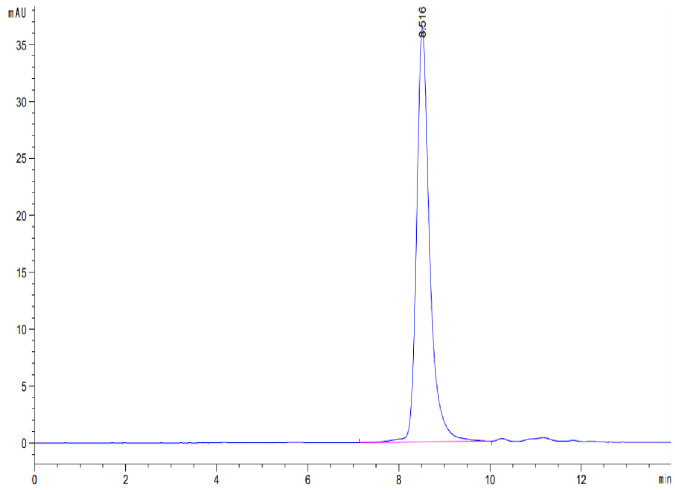
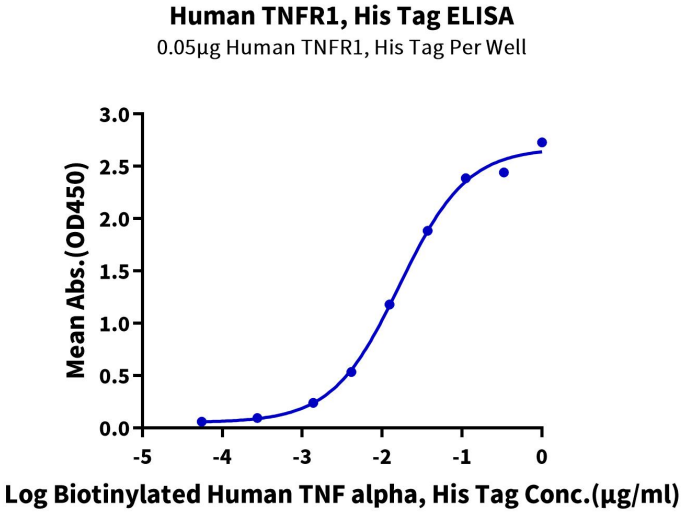
Assay Data



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

ELISA Data



Immobilized Human TNFR1, His Tag at 0.5μg/ml (100μl/Well). Dose response curve for Biotinylated Human TNF alpha, His Tag with the EC50 of 16.5ng/ml determined by ELISA.