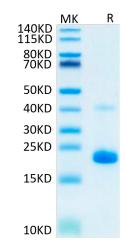
Human TNF alpha Protein, Ultra Low Endotoxin

Cat. No. TNF-HM40A-UL

Description	
Source	Recombinant Human TNF alpha Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Val77-Leu233.
Accession	P01375
Molecular Weight	The protein has a predicted MW of 20.3 kDa. Due to glycosylation, the protein migrates to 21-25 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 90% 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 receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	Tumor necrosis factor alpha (TNF-alpha), also known as cachectin and TNFSF2, is the prototypic ligand of the TNF superfamily. It is a pleiotropic molecule that plays a central role in inflammation, immune system development, apoptosis, and lipid metabolism.Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation.

Assay Data

Bis-Tris PAGE



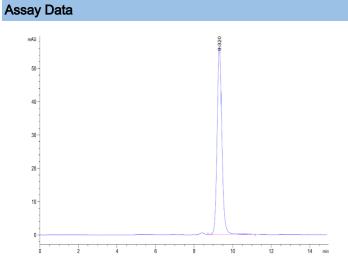
Human TNF alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

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SEC-HPLC

Human TNF alpha Protein, Ultra Low Endotoxin Cat. No. TNF-HM40A-UL

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

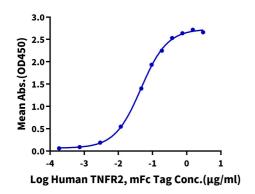
Human TNF alpha Protein, Ultra Low Endotoxin

Cat. No. TNF-HM40A-UL

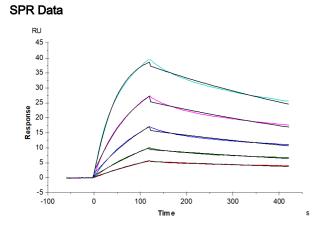
Assay Data

ELISA Data

Human TNF alpha, His Tag ELISA 0.5µg Human TNF alpha, His Tag Per Well



Immobilized Human TNF alpha, His Tag at 5μ g/ml (100 μ l/well) on the plate. Dose response curve for Human TNFR2, mFc Tag with the EC50 of 45.8ng/ml determined by ELISA (QC Test).



Human TNF alpha, His Tag captured on CM5 Chip via anti-his antibody can bind Human TNFR2, mFc Tag with an affinity constant of 1.62 nM as determined in SPR assay (Biacore T200).

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