

Datasheet for ABIN7275766

TNF alpha Protein (AA 77-233) (His-Avi Tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	TNF alpha
Protein Characteristics:	AA 77-233
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNF alpha protein is labelled with His-Avi Tag.

Product Details

Purpose:	Human TNF alpha Protein
Sequence:	Val77-Leu233
Characteristics:	Recombinant Human TNF alpha Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Val77-Leu233.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human TNF alpha, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human TNFR1, hFc Tag with the EC50 of 22.1ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	TNF alpha
Alternative Name:	TNF alpha (TNF alpha Products)
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/TNFR. 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.
Molecular Weight:	20.3 kDa. Due to glycosylation, the protein migrates to 21-25 kDa based on Tris-Bis PAGE result.
UniProt:	P01375
Pathways:	NF-kappaB Signaling , Apoptosis , Caspase Cascade in Apoptosis , TLR Signaling , Cellular Response to Molecule of Bacterial Origin , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Positive Regulation of Endopeptidase Activity , Hepatitis C , Protein targeting to Nucleus , Inflammasome

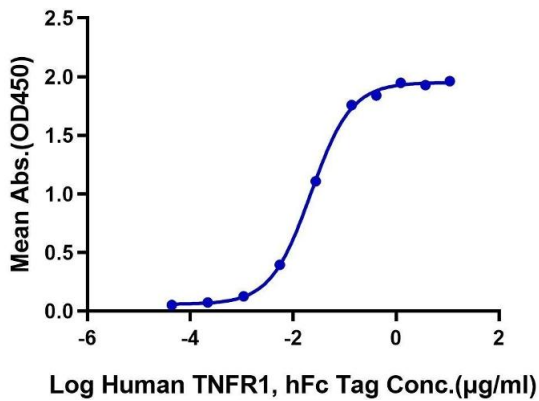
Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months 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.
Expiry Date:	12 months

Human TNF alpha, His Tag ELISA
0.05µg Human TNF alpha, His Tag Per Well

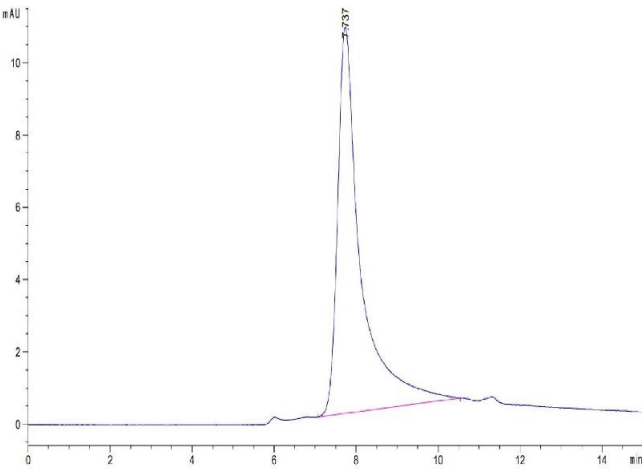


ELISA

Image 1. Immobilized Human TNF alpha, His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human TNFR1, hFc Tag with the EC50 of 22.1 ng/mL determined by ELISA.

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human TNF alpha is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 3. Human TNF alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

