

Datasheet for ABIN7275767

**TNF alpha Protein (AA 77-233) (His-Avi Tag,Biotin)**

## 4 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,Biotin.

## Product Details

Purpose:	Biotinylated Human TNF alpha Protein
Sequence:	Val77-Leu233
Characteristics:	Recombinant Biotinylated 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 R2, mFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human TNF alpha, His Tag with the EC50 of 3.5ng/ml determined by ELISA. See testing image for detail.

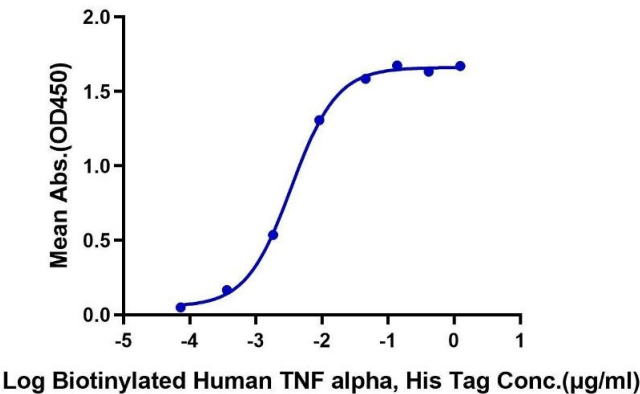
## Target Details

Target:	TNF alpha
Alternative Name:	TNF alpha ( <a href="#">TNF alpha Products</a> )
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 21-24 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">P01375</a>
Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">Apoptosis</a> , <a href="#">Caspase Cascade in Apoptosis</a> , <a href="#">TLR Signaling</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Hepatitis C</a> , <a href="#">Protein targeting to Nucleus</a> , <a href="#">Inflammasome</a>

## Application Details

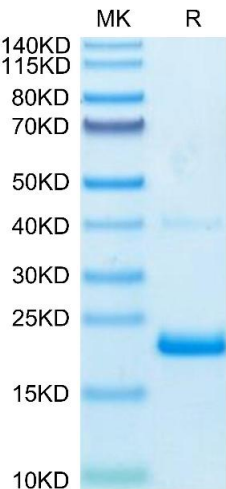
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 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

**Biotinylated Human TNF alpha, His Tag ELISA**  
0.05µg Human TNFR2, mFc Tag Per Well



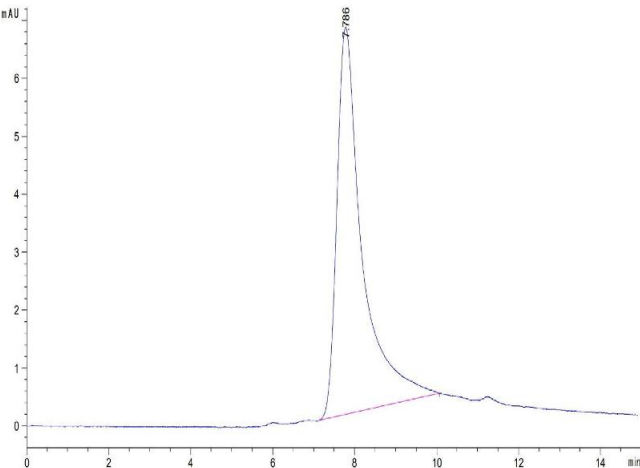
**ELISA**

**Image 1.** Immobilized Human TNF R2, mFc Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Human TNF alpha, His Tag with the EC50 of 3.5 ng/mL determined by ELISA.



**SDS-PAGE**

**Image 2.** Biotinylated Human TNF alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



**Size-exclusion chromatography-High Pressure Liquid Chromatography**

**Image 3.** The purity of Biotinylated Human TNF alpha is greater than 95 % as determined by SEC-HPLC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7275767.