

# Felis catus TNF alpha Protein (active trimer)

Cat. No. TNF-FM10A

## Description

<b>Source</b>	Recombinant Felis catus TNF alpha Protein (active trimer) is expressed from HEK293 with His tag at the C-terminus. It contains Leu77-Leu233.
<b>Accession</b>	P19101
<b>Molecular Weight</b>	The protein has a predicted MW of 18.86 kDa. Due to glycosylation, the protein migrates to 19-25 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

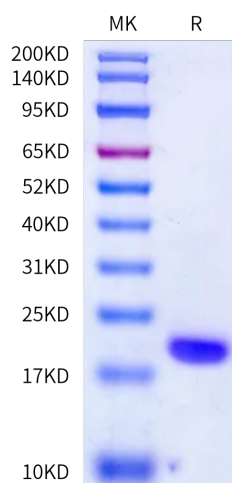
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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/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.

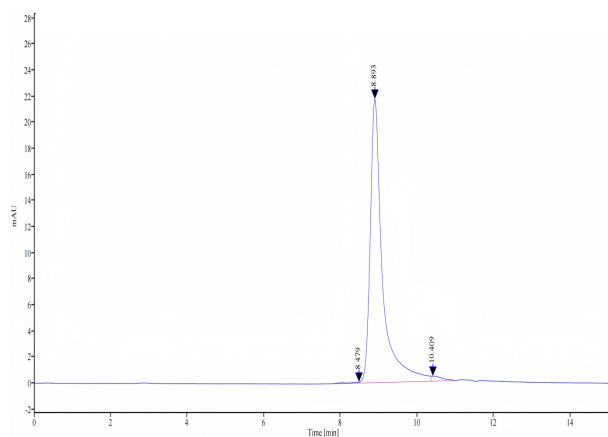
## Assay Data

### Bis-Tris PAGE



Felis catus TNF alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



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

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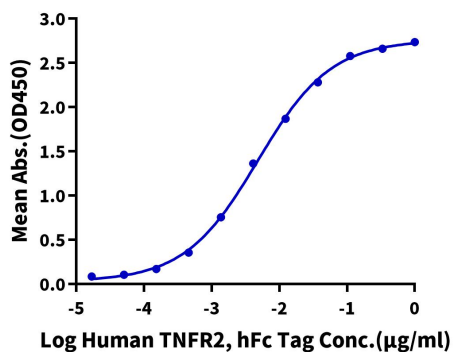
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## Assay Data

### ELISA Data

#### Felis catus TNF-alpha, His Tag ELISA

0.2µg Felis catus TNF-alpha, His Tag Per Well



Immobilized Felis catus TNF-alpha, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human TNFR2, hFc Tag (Cat. TNF-HM2R2) with the EC50 of 4.8ng/ml determined by ELISA.