

**Synonym**

LTA,DAMA-25N12,13-004,LT,TNFB,TNFSF1,LT-alpha,TNF-beta

**Source**Human TNF-beta Protein, His Tag(TNB-H52H3) is expressed from human 293 cells (HEK293). It contains AA Leu 35 - Leu 205 (Accession # [P01374](#) ).

Predicted N-terminus: Leu 35

**Molecular Characterization**

TNF-beta(Leu 35 - Leu 205) P01374	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 20.5 kDa. The protein migrates as 26-30 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

&gt;90% as determined by SDS-PAGE.

&gt;90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

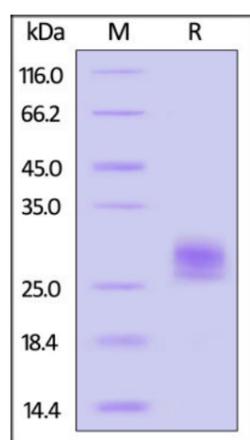
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

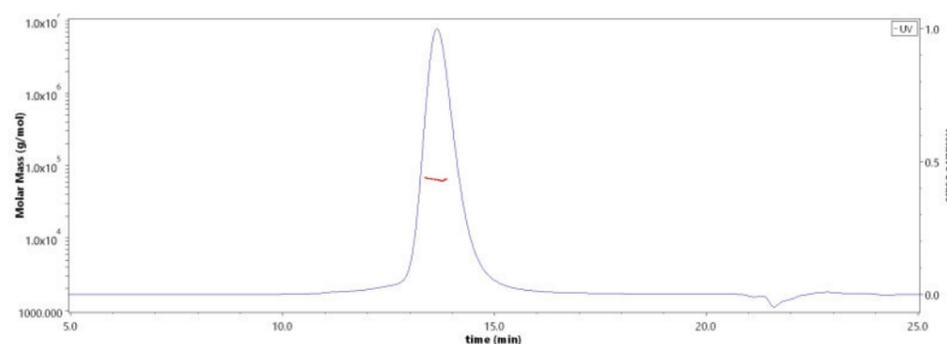
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

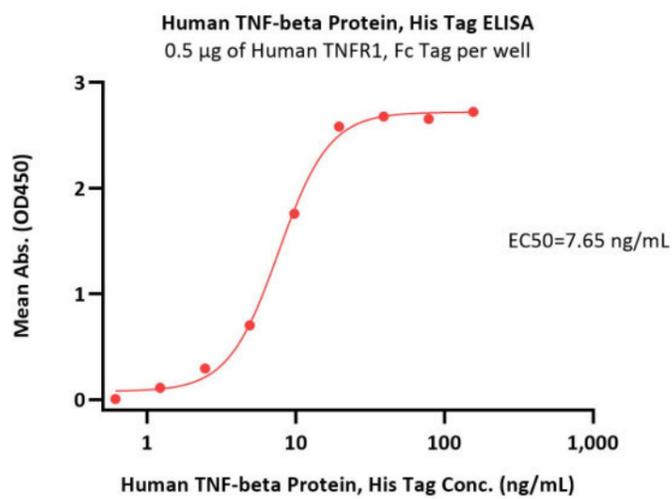
**SDS-PAGE**

Human TNF-beta Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

**Bioactivity-ELISA****SEC-MALS**

The purity of Human TNF-beta Protein, His Tag (Cat. No. TNB-H52H3) is more than 90% and the molecular weight of this protein is around 62-78 kDa verified by SEC-MALS.

[Report](#)



Immobilized Human TNFR1, Fc Tag (Cat. No. TN1-H5251) at 5 µg/mL (100 µL/well) can bind Human TNF-beta Protein, His Tag (Cat. No. TNB-H52H3) with a linear range of 1-20 ng/mL (QC tested).

## Background

The encoded protein, a member of the tumor necrosis factor family, is a cytokine produced by lymphocytes. The protein is highly inducible, secreted, and forms heterotrimers with lymphotoxin-beta which anchor lymphotoxin-alpha to the cell surface. This protein also mediates a large variety of inflammatory, immunostimulatory, and antiviral responses, is involved in the formation of secondary lymphoid organs during development and plays a role in apoptosis. Genetic variations in this gene are associated with susceptibility to leprosy type 4, myocardial infarction, non-Hodgkin's lymphoma, and psoriatic arthritis. Alternatively spliced transcript variants have been observed for this gene.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.