

Synonym

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

Source

Human TNF-beta Protein, Fc Tag(TNB-H5263) is expressed from human 293 cells (HEK293). It contains AA Lys 62 - Leu 205 (Accession # [P01374](#)).

Predicted N-terminus: Pro

Molecular Characterization

Fc(Pro 100 - Lys 330) P01857	TNF-beta(Lys 62 - Leu 205) P01374
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This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 42.3 kDa. The protein migrates as 48-53 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a trimer.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

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

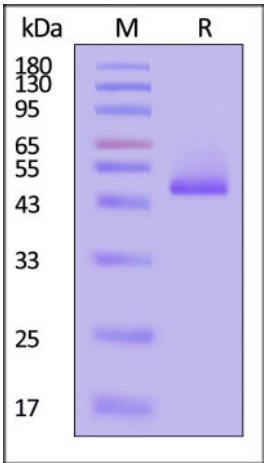
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

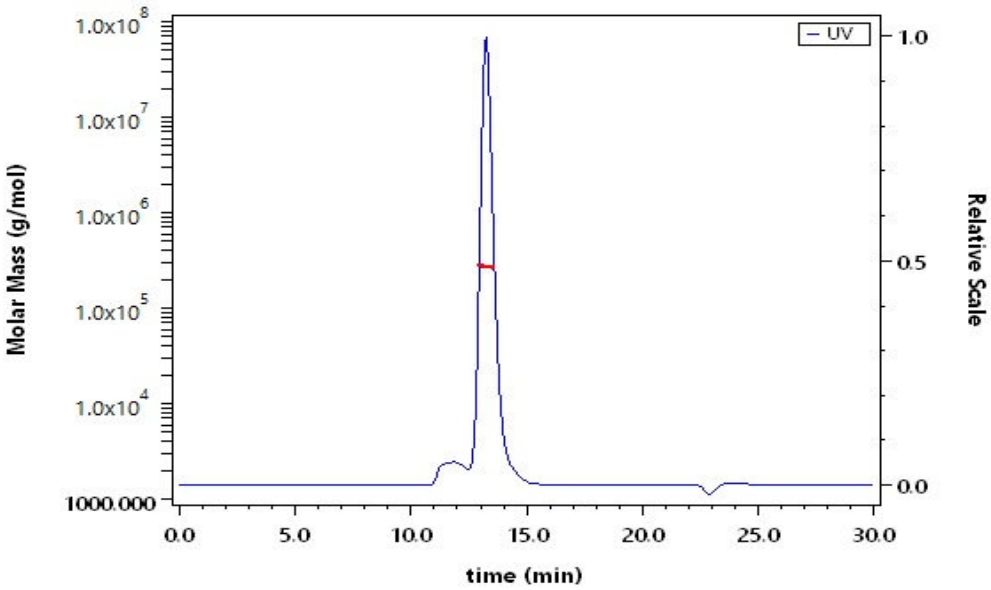
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human TNF-beta Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human TNF-beta Protein, Fc Tag (Cat. No. TNB-H5263) is more than 85% and the molecular weight of this protein is around 255-285 kDa verified by SEC-MALS.

[Report](#)

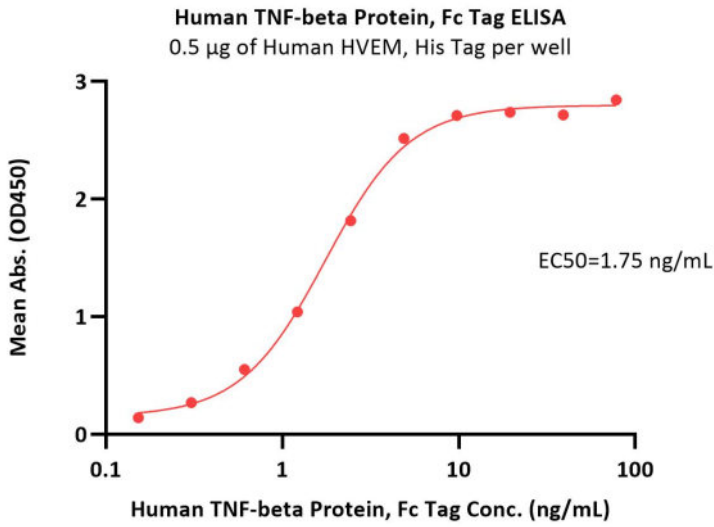
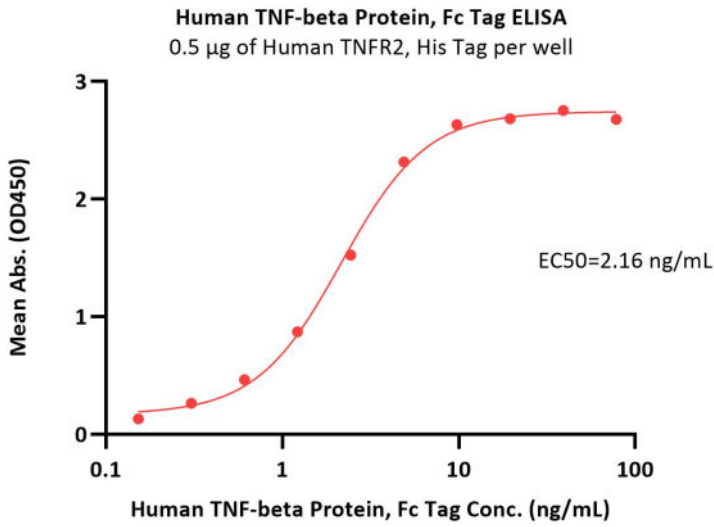
Bioactivity-ELISA

Discounts, Gifts,
and more!



Human TNF-beta / Lymphotoxin-alpha Protein, Fc Tag (MALS verified)

Catalog # TNB-H5263



Immobilized Human TNFR2, His Tag (Cat. No. TN2-H5227) at 5 µg/mL (100 µL/well) can bind Human TNF-beta Protein, Fc Tag (Cat. No. TNB-H5263) with a linear range of 0.2-5 ng/mL (QC tested).

Immobilized Human HVEM, His Tag (Cat. No. HVM-H52E9) at 5 µg/mL (100 µL/well) can bind Human TNF-beta Protein, Fc Tag (Cat. No. TNB-H5263) with a linear range of 0.2-5 ng/mL (Routinely 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.

