

Mouse TNF-alpha Protein, His Tag

Catalog # TNA-M52H3



BIOSYSTEMS
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Surprise Inside!

Synonym

DIF, TNF-alpha, TNFA, TNFSF2, cachexin, cachectin, TNF α

Source

Mouse TNF-alpha, His Tag(TNA-M52H3) is expressed from human 293 cells (HEK293). It contains AA Leu 80 - Leu 235 (Accession # [P06804](#)).

Predicted N-terminus: Leu 80

Molecular Characterization

TNF-alpha(Leu 80 - Leu 235)
P06804 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 19.1 kDa. The protein migrates as 19-20 kDa and 23-24 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ m 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

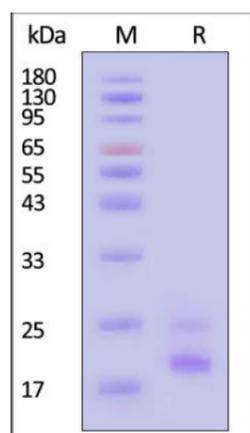
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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



Mouse TNF-alpha, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

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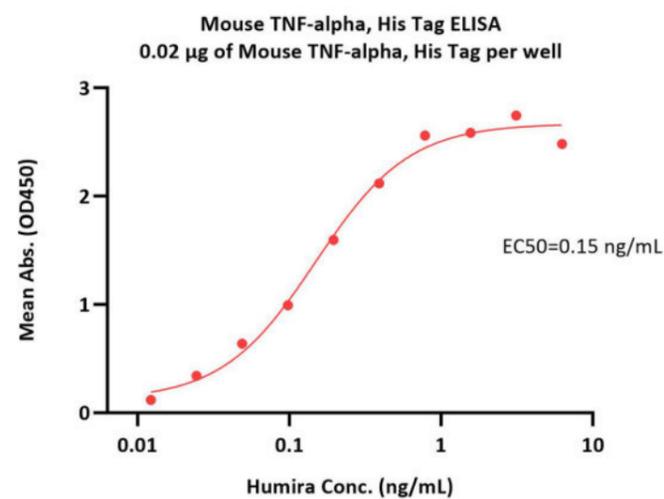
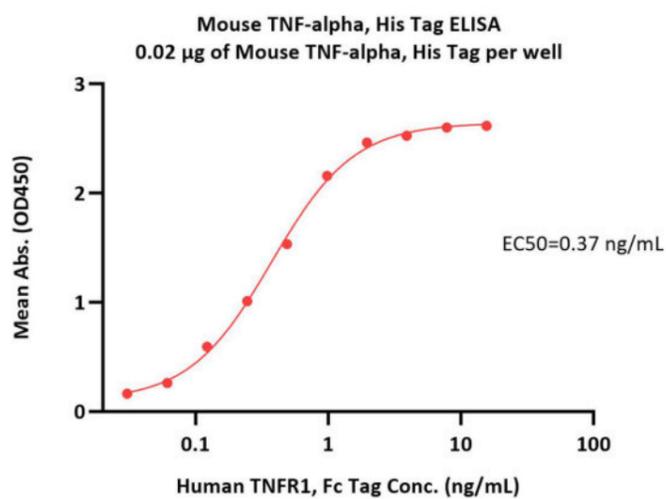
4/3/2024

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Immobilized Mouse TNF-alpha, His Tag (Cat. No. TNA-M52H3) at 0.2 µg/mL (100 µL/well) can bind Human TNFR1, Fc Tag (Cat. No. TN1-H5251) with a linear range of 0.1-1 ng/mL (QC tested).

Immobilized Mouse TNF-alpha, His Tag (Cat. No. TNA-M52H3) at 0.2 µg/mL (100 µL/well) can bind Humira with a linear range of 0.1-1 ng/mL (Routinely tested).

Background

Tumor necrosis factor alpha (TNF α) is a cytokine produced primarily by monocytes and macrophages. It is found in synovial cells and macrophages in the tissues. The primary role of TNF α is in the regulation of immune cells. TNF α is able to induce apoptotic cell death, to induce inflammation, and to inhibit tumorigenesis and viral replication. Dysregulation of TNF α production has been implicated in a variety of human diseases, including major depression, Alzheimer's disease and cancer. Recombinant TNF α is used as an immunostimulant under the INN tasonermin. TNF α can be produced ectopically in the setting of malignancy and parallels parathyroid hormone both in causing secondary hypercalcemia and in the cancers with which excessive production is associated.

Clinical and Translational Updates

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