

Mouse TNFR-1, His Tag, CHO

Catalog Number	LDG007PMM
Package	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Specifications

Species of Origin

Mouse

Affinity Tag

His Tag (C-term)

Purity

>95% as determined by SDS-PAGE analysis.

Activity

Measured by its ability to inhibit TNF-alpha mediated cytotoxicity in L-929 mouse fibroblast cells in the presence of actinomycin D and 0.25 ng/mL recombinant mouse TNF-alpha, with the ED50 being < 0.8 µg/mL.

Form

Lyophilized

Expression system

CHO

Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4

Molecular weight

The protein has a calculated MW of 21.15 kDa. The protein migrates as 30-40 kDa under reducing condition (SDS-PAGE analysis).

Endotoxin level

<0.1 EU per 1 µg of the protein by the LAL method.

Background

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Background

TNFR-1, or Tumor Necrosis Factor Receptor 1, is a transmembrane protein receptor found on the surface of various cell types. It serves as a key mediator in the signaling pathway activated by Tumor Necrosis Factor-alpha (TNF-alpha), a cytokine involved in inflammation and immune response regulation. Upon binding with TNF-alpha, TNFR-1 triggers downstream signaling cascades that regulate cell survival, apoptosis, and inflammation. Dysregulation of TNFR-1 signaling has been implicated in autoimmune diseases, inflammatory conditions, and cancer. Understanding the molecular mechanisms of TNFR-1 activation is crucial for developing targeted therapies for diseases involving TNF-alpha dysregulation.

Uniprot ID

NP_035739.2

Synonyms

Tumor necrosis factor receptor 1 (TNF-R1), Tumor necrosis factor receptor type I (TNF-RI; TNFR-I), p55, p60, CD120a

Sequence Note

Met1-Ala212

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration of 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Stability & Storage

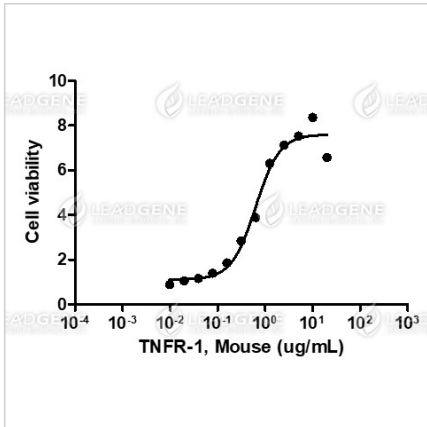
This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

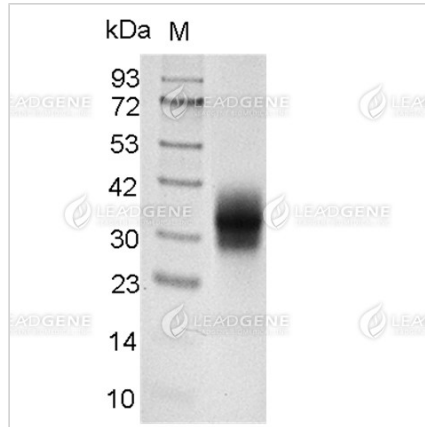
Avoid repeated freeze/thaw cycles.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image


Mouse TNFR-1 Protein, His Tag, CHO (LDG007PMM) inhibits TNF-alpha mediated cytotoxicity in L-929 mouse fibroblast cells in the presence of actinomycin D and 0.25 ng/mL recombinant mouse TNF-alpha, with the ED50 being < 0.8 µg/mL.



SDS-PAGE analysis of recombinant mouse TNFR-1.

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