

# Mouse TNF-alpha Recombinant Protein

Product Details	
Size	20 µg
Species	Mouse
Expression system	P. pastoris
Amino acid sequence	Mouse TNF-alpha, amino acids 80-235 (Accession # P06804)
Molecular weight	17.3 kDa
Class	Recombinant
Type	Protein
Purity	>95% by SDS-PAGE
Activity	Determined by the cytolytic effect on mouse WEHI-13VAR cells in the presence of Actinomycin D.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Storage buffer	PBS
Contains	no preservative
Storage conditions	4° C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	-
Control (Ctrl)	Assay-dependent	-
Miscellaneous PubMed (Misc)	-	4 Publications

## Product Specific Information

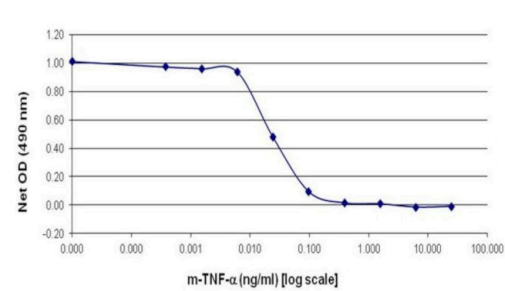
The mature, soluble form of mouse TNF-alpha was expressed in Pichia pastoris, KM71H. GenBank Accession # P06804, amino acids 80 - 235. For protein verification, the expressed protein was N-terminal sequenced and begins with the following 10 amino acids: LRSSSQNSSD. Purity is >95% by SDS-PAGE analyses.

**Activity:** The biological activity of recombinant mouse TNFa was measured by its cytolytic effect on mouse WEHI-13VAR cells in the presence of Actinomycin D.

**Use:** For in vitro applications. A dose-response assay should be performed to determine the optimal concentration for specific experiments.

**Reconstitution and Dilution:** Store lyophilized material at 4°C. Reconstitute in 0.5 mL of distilled or deionized water. Dilute in a buffer-containing carrier protein, aliquot, and store at or below -70°C, avoiding multiple freeze-thaw cycles. PBS with 1% BSA or a neutral media containing <10% FCS are suitable buffers.

Product Images For Mouse TNF-alpha Recombinant Protein



**Mouse TNF-alpha Protein (RMTNFAI) in ELISA**  
Cytotoxicity Bioassay Analysis of Murine TNF-alpha was performed by resuspending 929 cells in 10% Horse Serum. Six thousand cells per well (passage 8, in 100 µL volume) were transferred to assay plate and incubated overnight at 37°C. Mouse TNF-alpha Recombinant Protein (Product # RMTNFAI), was serially diluted 1:4 in triplicate starting from a concentration of 100 ng/mL in assay media containing 1 µg/mL Actinomycin D, 2X Gentamicin and 10% Horse Serum, and 100 µL was added to each well. The plate was incubated for 23 hours at 37°C and then analyzed via a colorimetric method to determine cell viability and read at 490 nm.

4 References

Miscellaneous PubMed (4)

<p><b>Molecular vision</b></p> <p><b>Proinflammatory cytokines trigger biochemical and neurochemical changes in mouse retinal explants exposed to hyperglycemic conditions.</b></p> <p>Authors: Shivashankar G,Lim JC,Acosta ML</p>	<p><b>Year</b></p> <p>2021</p>
<p><b>Journal of the Endocrine Society</b></p> <p><b>Luciferase Reporter Mice for <i>In Vivo</i> Monitoring and <i>Ex Vivo</i> Assessment of Hypothalamic Signaling of Socs3 Expression.</b></p> <p>Authors: Cordonier EL,Liu T,Saito K,Chen SS,Xu Y,Fukuda M</p>	<p><b>Year</b></p> <p>2019</p>

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