Recombinant Mouse TNF-alpha Protein

Catalog No.: RP01071

Sequence Information

Species	Gene ID
Mouse	21926

Swiss Prot	Tags
P06804	C-His

Synonyms

DIF, Tnfa, TNF-a, TNFSF2, Tnlg1f, Tnfsf1a, TNFalpha, TNF-alpha,TNF

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE;≥95 % as determined by HPLC.

Calculated MW	Observed MW
18.10 kDa	18 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Basic Information

Description

Recombinant Mouse TNF-alpha Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu80-Leu235) of mouse TNF-alpha (Accession #NP_038721.1) fused with a 6×His tag at the C-terminus.

Activity

1.Immobilized recombinant Mouse TNFα at 2 μg/mL (100 μL/well) can bind Human TNFRSF1A with a linear range of 4-53 ng/mL. | 2.Immobilized Recombinant Mouse TNF-α at 2 μg/mL (100 μL/well) can bind Mouse TNFRSF1B with a linear range of 0.02-0.77 ng/mL. | 3.Recombinant Mouse TNF-alpha induces cytotoxicity in the L-929 mouse fibroblast cell line in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is typically 3.55-14.2 pg/mL, corresponding to a specific activity of 7.04×107~2.82×108 units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

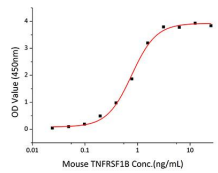
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

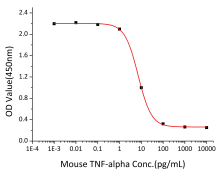
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

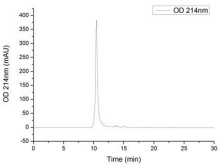
Validation Data



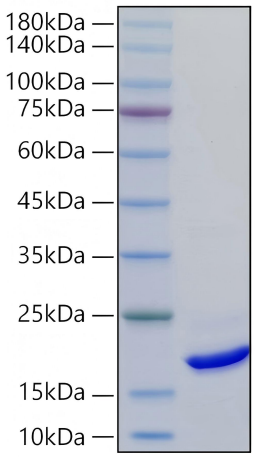
Immobilized Recombinant Mouse TNF-α at 2 μg/mL (100 μL/well) can bind Mouse TNFRSF1B with a linear range of 0.02-0.77 ng/mL.



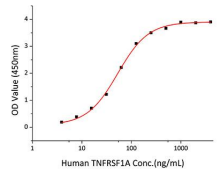
Recombinant Mouse TNF-alpha induces cytotoxicity in the L-929 mouse fibroblast cell line in the presence of the metabolic inhibitor actinomycin D. The ED_{50} for this effect is typically 3.55-14.2 pg/mL, corresponding to a specific activity of 7.04×10^{7}~2.82×10^{8} units/mg.



The purity of Mouse TNF-alpha Protein (Cat.RP01071) was greater than 95% as determined by SEC-HPLC.



Recombinant Mouse TNF-alpha Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Mouse TNFα at 2 μg/mL (100 μL/well) can bind Human TNFRSF1A with a linear range of 4-53 ng/mL.