ABclonal®

Recombinant Mouse TNF-alpha Protein

Catalog No.: RP01071 Recombinant 2 Publications

Sequence Information

Species Gene ID Swiss Prot HEK293 cells 21926 P06804

Tags

C-His

Synonyms

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

Product Information

Source Purification
HEK293 cells > 87% by SDS-

PAGE.

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ 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.

Contact

•

www.abclonal.com

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.

Bio-Activity

1.Immobilized recombinant Mouse TNF α 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 $7.04\times107\sim2.82\times108$ units/mg.

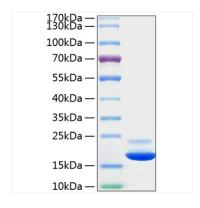
Storage

Store at -20° C. Store the lyophilized protein at -20° C to -80° C up to 1 year from the date of receipt.

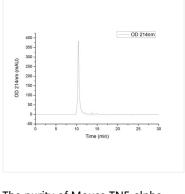
-20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

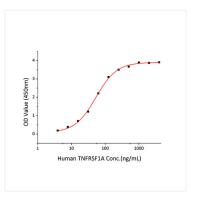
Validation Data



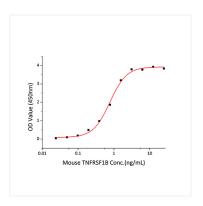
Recombinant Mouse TNF-alpha Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



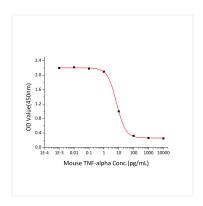
The purity of Mouse TNF-alpha Protein (Cat.RP01071) was greater than 95% as determined by SEC-HPLC.



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



Immobilized Recombinant Mouse TNF- α at 2 μ g/mL (100 μ L/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 ED₅₀ for this effect is typically 3.55-14.2 pg/mL, corresponding to a specific activity of $7.04\times10^{7}\sim2.82\times10^{8}$ units/mg.