

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-05-08 15:14:48
 Date of Next Testing: 2027-05-08 15:14:48

 Product Name: Recombinant Human TNF- α Protein
 Lot #: ZJ26F0435040
 SKU #: rp228949
 Version: 1
 Analysis #: 034741
 Source: Recombinant
 Specifications & Purity: Animal Free, Carrier Free, Bioactive, High performance, ActiBioPure™, $\geq 95\%$ (SDS-PAGE), expressed in E. coli; See COA

 Concentration:
 Formulation: Lyophilized
 Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute at 0.5 mg/mL in sterile distilled water. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

 Storage Conditions: Store at -20°C , Avoid repeated freeze-thaw cycles
 Analysis: 034741

Parameter	Limit Value	Result
Molecular Weight	12.6-19.0(kD)	16.94143 kD
Purity(SDS-PAGE)	95-100(%)	100.00000 %
Activity(ED50)	< 150(pg/ml)	18.38000 pg/ml
Appearance(rp228949)	White to off-white powder	White to off-white powder
Endotoxin Level <1 EU/ μg	Conform	Conform



Sophia Cheng
 Quality Assurance