

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-02-24 14:34:01
 Date of Next Testing: 2027-02-24 14:34:01

 Product Name: Recombinant Human M-CSF Protein
 Lot #: ZJ25F0319636
 SKU #: rp156168
 Version: 2
 Analysis #: 031183
 Source: Recombinant
 Specifications & Purity: Animal Free, Carrier Free, Bioactive, ActiBioPure™, High performance, ≥95% (SDS-PAGE), 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 1.0 mg/mL in sterile distilled water. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

 Storage Conditions: Store at -20°C, Avoid repeated freezing and thawing
 Analysis: 031183

Parameter	Limit Value	Result
Molecular Weight (R)	30.1-55.7(kD)	49.00000 kD
Molecular Weight (NR)	80.7-111.8(kD)	96.00000 kD
Purity(SDS-PAGE)	95-100(%)	100.00000 %
Activity(ED50)	0-30(ng/ml)	21.80000 ng/ml
Appearance(rp156168)	White to off-white powder	White to off-white powder
Endotoxin Level <1 EU/μg	Conform	Conform
M-CSF Ab binding	Conform	Conform



Sophia Cheng
 Quality Assurance