

ALADDIN SCIENTIFIC CORPORATION

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## Certificate of Analysis

|                          |                                                                                                                                                                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of Testing:         | 2026-07-10 15:04:46                                                                                                                                                                                                                                                                                                       |
| Date of Next Testing:    | 2027-07-10 15:04:46                                                                                                                                                                                                                                                                                                       |
| Product Name:            | Recombinant Human CD28 Protein                                                                                                                                                                                                                                                                                            |
| Lot #:                   | ZJ25F0926464                                                                                                                                                                                                                                                                                                              |
| SKU #:                   | rp169576                                                                                                                                                                                                                                                                                                                  |
| Version:                 | 1                                                                                                                                                                                                                                                                                                                         |
| Analysis #:              | 038877                                                                                                                                                                                                                                                                                                                    |
| Source:                  | Recombinant                                                                                                                                                                                                                                                                                                               |
| Specifications & Purity: | Animal Free, Carrier Free, Bioactive, ActiBioPure™, PBS Only, ≥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.<br>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 freeze-thaw cycles                                                                                                                                                                                                                                                                         |
| Analysis:                | 038877                                                                                                                                                                                                                                                                                                                    |

| Parameter                | Limit Value               | Result                    |
|--------------------------|---------------------------|---------------------------|
| Molecular Weight (R)     | 48.8-78.2(kD)             | 67.00000 kD               |
| Molecular Weight (N)     | 98.6-163.8(kDa)           | 135.00000 kD              |
| Purity(SDS-PAGE)         | 95-100(%)                 | 99.00000 %                |
| Appearance(rp169576)     | White to off-white powder | White to off-white powder |
| Endotoxin Level <1 EU/μg | Conform                   | Conform                   |
| CD28 Ab binding          | Conform                   | Conform                   |



Sophia Cheng  
Quality Assurance