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## Certificate of Analysis

**Product Description:** Recombinant SARS-CoV-2 Spike S1 Protein (His tag)  
**Catalog Number:** L100005  
**Lot:** S8782

**Formula:** N/A  
**CAS #:** N/A  
**Physical Description:** Lyophilized White Powder

**Formula Weight:** N/A  
**Storage:** -20°C

Test	Specification	Result
Identity Test	Passes	Passes
Host	Human 293 cells	Human 293 cells
Tag	His tag	His tag
Form	Lyophilized	Lyophilized
Amount	100 µg	100 µg

**DESCRIPTION:** This recombinant protein is highly pure (>97%) through SDS-PAGE check; The endotoxin level is < 0.1 EU/ig through LAL method; The functional ELISA revealed that the immobilized SARS-CoV-2 Spike S1 at 2 µg/mL (100 µL/well) can bind to recombinant Human ACE2 with a linear range of 0.03-7.12 ng/mL; The human ACE2 immobilized on COOH Chip can bind to SARS-COV-2 Spike S1 with an affinity constant of 27.3 nM as determined in a Nicoya OpenSPR assay.

**STORAGE:** This protein is in a lyophilized powder format prepared from a 0.22 µm filtered solution of PBS, pH 7.3 - 7.4. Store the lyophilized protein at -20 °C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2 - 8 °C for up to 1 week. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.

**WARNING AND CAUTION:** This product is intended FOR RESEARCH USE ONLY, not for use in diagnostic or therapeutic procedures involving humans.  
Recommended Retest Date (MM/DD/YYYY):06/28/2024

A handwritten signature in black ink, appearing to read 'Lily Meng'.

06/28/2022 - Lily Meng

MP Biomedicals, LLC.  
QC Chemist

This is an electronically generated document  
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