

**Spike Glycoprotein (Stabilized) from SARS-Related Coronavirus 2, with C-Terminal Histidine and Twin-Strep® Tags, Recombinant from HEK293F Cells**

**Catalog No. NR-56132**

This reagent is the tangible property of the U.S. Government.

**Product Description:**

Note: The Strep tag designation on the label is incorrect; the correct Strep tag is a Twin-Strep® tag. A recombinant form of the spike (S) glycoprotein from severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2; GenPept: [QIZ14569.1](#)) was produced by transient transfection into human embryonic kidney HEK293F cells and purified by immobilized metal affinity chromatography. NR-56132 lacks the signal sequence and contains 1196 residues (ectodomain) of the SARS-CoV-2 spike glycoprotein; the recombinant protein was stabilized by substitution at the furin S1/S2 cleavage site (RRAR→GSAS; residues 670 to 673) and KV→PP mutations (residues 974 and 975), and includes a HRV3C protease cleavage site, T4 foldon trimerization domain, and C-terminal octa-histidine and Twin-Strep® tags. Quality control testing was completed just prior to vialing.

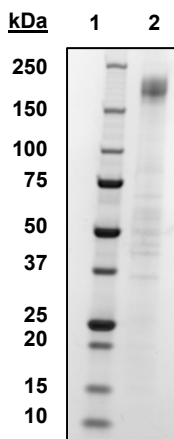
**Lot: 70047737**

**Manufacturing Date: 20SEP2021**

TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b>	Clear and colorless	Clear and colorless
<b>SDS-PAGE Analysis</b>	Report results	Protein band of > 170 kDa represents 93.1% of total staining intensity (Figure 1)
<b>Concentration by Bicinchoninic Acid Assay</b> Bovine Serum Albumin (standard)	Report results	1.0 mg per mL
<b>Final Product</b> Amount per vial Volume per vial	Report results Report results	100 µg 100 µL
<b>Functional Activity by Western Blot Analysis</b> Monoclonal anti-histidine tag	Reactive	Reactive (Figure 2) <sup>1</sup>
<b>Sterility</b>	0.22 µm sterile-filtered	0.22 µm sterile-filtered

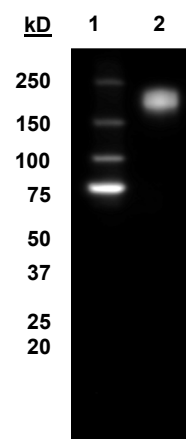
<sup>1</sup>Using a 1:1000 dilution of mouse monoclonal anti-histidine tag (R&D Systems, Inc., His-Tag HRP-Conjugated Antibody, Catalog No. MAB050H) as primary antibody.

**Figure 1: SDS-PAGE Analysis**



Lane 1: Precision Plus Protein™ Standard  
Lane 2: NR-56132 (1.5 µg)

**Figure 2: Anti-Histidine Western Blot Analysis**



Lane 1: Precision Plus Protein™ Standard  
Lane 2: NR-56132 (1.5 µg)

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20 JUN 2022

Lead Technical Writer or designee, ATCC Federal Solutions

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