

Certificate of Analysis for NR-53589

Spike Glycoprotein (Stabilized) from SARS-Related Coronavirus 2, Wuhan-Hu-1 with C-Terminal Histidine and Twin-Strep® Tags, Recombinant from HEK293 Cells

Catalog No. NR-53589

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

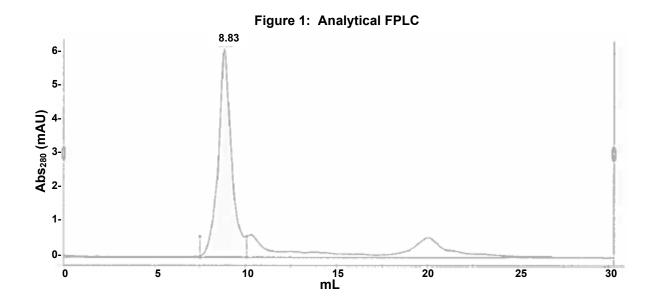
Product Description:

A recombinant form of the spike (S) glycoprotein from severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), Wuhan-Hu-1 (GenPept: QHD43416) was produced by transient transfection of a previously published construct (VRC7471) into human embryonic kidney HEK293 (Freestyle 293F) cells and purified by immobilized metal affinity (Ni-NTA) and gel filtration (16/600 Superdex 200) chromatography. NR-53589 lacks the native signal sequence and contains 1194 residues (ectodomain) of the SARS-CoV-2 S glycoprotein; the recombinant protein was stabilized by substitution at the furin S1/S2 cleavage site (RRAR→GSAS; residues 682 to 685) and KV→PP mutations (residues 986 and 987), and includes a T4 foldon trimerization domain, HRV3C protease cleavage site, and C-terminal octa-histidine and Twin-Strep® tags.

Lot: 70038005 Manufacturing Date: 20JUL2020

TEST	SPECIFICATIONS	RESULTS
1E31	SPECIFICATIONS	RESULTS
Appearance	Report results	Clear
Purity Analytical Fast Protein Liquid Chromatography (FPLC)	Report results	Peak observed at expected retention time (Figure 1)
Protein Concentration (A ₂₈₀)	Report results	0.25 mg per mL
Final Product		
Amount per vial	Report results	25 μg
Volume per vial	Report results	100 µL
Functional Activity		
ELISA ¹	Report results	Reactive (Figure 2)

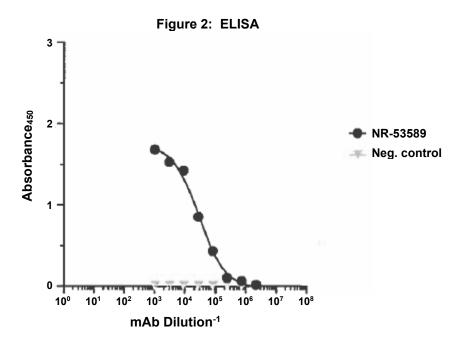
¹Using SARS-CoV-2 (2019-nCoV) Spike S1 Antibody, Rabbit MAb (Sino Biological catalog number 40150-R007)



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/Heather Couch/ Heather Couch

31 AUG 2020

Program Manager or designee, ATCC Federal Solutions

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