

Spike Glycoprotein S1 Domain from SARS-Related Coronavirus 2, Wuhan-Hu-1 with C-Terminal Histidine Tag, Recombinant from HEK293 Cells

Catalog No. NR-53798

Sino Biological Catalog No. 40591-V08H

Product Description:

A recombinant form of the spike glycoprotein S1 domain from severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), Wuhan-Hu-1 (GenPept: [YP_009724390](https://www.ncbi.nlm.nih.gov/nuccore/YP_009724390)) was produced by transfection in human embryonic kidney HEK293 cells and purified. NR-53798 lacks the signal sequence, contains 670 residues of the SARS-CoV-2 spike glycoprotein (amino acid residues V16 to R685) and features a C-terminal poly-histidine tag.

Lot: MA14JL3003

Manufacturing Date: 30JUL2020

TEST	SPECIFICATIONS	RESULTS
Appearance	Transparent liquid, free of foreign material	Transparent liquid, free of foreign material
Purity SDS-PAGE and Quantitative Densitometry SEC-HPLC	Target protein band(s) > 90 ± 3% Target protein band(s) > 95%	Target protein band(s) 95.4% ¹ Target protein band(s) 99.9%
Concentration (A₂₈₀)	Report results	0.95 mg per mL
Final Product Amount per vial Volume per vial	Report results Report results	50 µg 53 µL
Functional ELISA	Positive	Positive
pH	7.4 ± 0.5	7.4 ± 0.5
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	< 1 EU per µg	< 1 EU per µg

¹The recombinant protein migrated to a slightly larger size than was expected, likely caused by glycosylation common in recombinant spike proteins derived from coronaviruses. For more information, please see Chakraborti, S., et al. "The SARS Coronavirus S Glycoprotein Receptor Binding Domain: Fine Mapping and Functional Characterization." *Virology* 2 (2005): 73. PubMed: 16122388.

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25 SEP 2020

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