Spike Glycoprotein Receptor Binding Domain (RBD) from SARS-Related Coronavirus 2, Wuhan-Hu-1, Recombinant from HEK293T Cells

Catalog No. NR-52306
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For research use only. Not for human use.

Contributor and Manufacturer:
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Product Description:
A recombinant form of the spike glycoprotein receptor binding domain (RBD) from severe acute respiratory syndrome-related coronavirus (SARS-CoV-2), Wuhan-Hu-1 (GenPept: QHD43416) was produced in human embryonic kidney HEK293T cells and purified by nickel affinity chromatography.1 NR-52306 lacks the signal sequence and contains 223 residues of the SARS-CoV-2 spike glycoprotein RBD and features a C-terminal hexahistidine tag.2 The predicted protein sequence is shown in Figure 1. NR-52306 has a theoretical molecular weight of 25,900 daltons.

Material Provided:
Each vial contains approximately 100 µL of NR-52306 in phosphate buffered saline (PBS). The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:
NR-52306 was packaged aseptically in cryovials. The product is provided on dry ice and should be stored at -80°C immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:
NR-52306 reacts with monoclonal anti-histidine tag in western blot analysis, and reacts in a standard ELISA. NR-52306 is intended for western blot, ELISA and animal vaccination.1

Citation:
Acknowledgment for publications should read “The following reagent was produced under HHSN272201400008C and obtained through BEI Resources, NIAID, NIH: Spike Glycoprotein Receptor Binding Domain (RBD) from SARS-Related Coronavirus 2, Wuhan-Hu-1, Recombinant from HEK293T Cells, NR-52306.”

Biosafety Level: 1

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References:

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Figure 1 – Predicted Protein Sequence

1  RVQPTESIVR  FPNITNLCPF  GEVFNATRFA  SVYAWNKRIS  SNCVADYSVL
51  YNSASFSTFK  CYGVSPTKLN  DLCFTNVYAD  SFVIRGDEVR  QIAPGQITGK
101  ADNYKLPDD  FTGCVIAWNS  NNLDKVGGGN  YNYLRLFRK  SNLKPFDRTI
151  STEIYQAGST  PCNGVEGFNC  YFPLQSYGFQ  PTNGVGYQPY  RVVVLSFELL
201  HAPATVCGBP  KSTNLVKNKC  VNFHHHHHH

RBD – Residues 1 to 223 (represents amino acid residues 319 to 541)
Hexahistidine tag – Residues 224 to 229