

# Product Datasheet

## Recombinant SARS-CoV-2 Spike S1 His (C-Term) Protein NBP2-90985

Unit Size: 100 ug

Store at -20 to -70C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 2

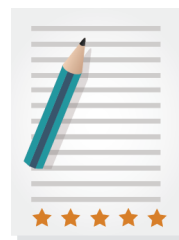
Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP2-90985](http://www.novusbio.com/NBP2-90985)

Updated 11/8/2023 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP2-90985](http://www.novusbio.com/reviews/destination/NBP2-90985)



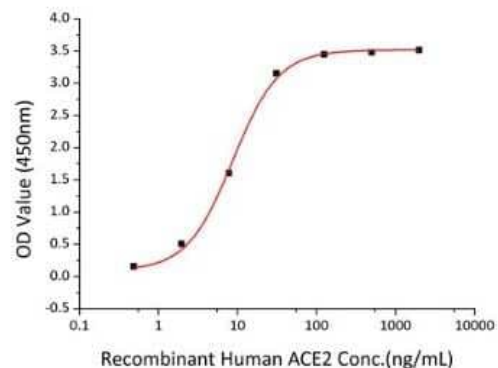
**NBP2-90985**

## Recombinant SARS-CoV-2 Spike S1 His (C-Term) Protein

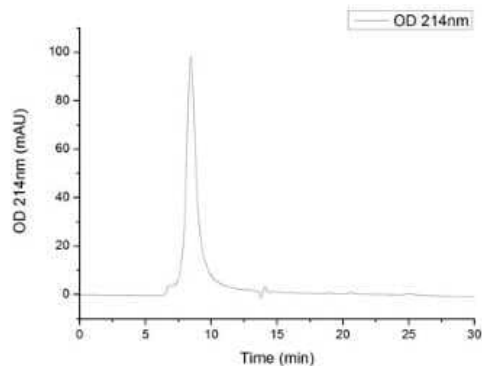
Product Information	
Unit Size	100 ug
Concentration	Lyoph
Storage	Store at -20 to -70C. Avoid freeze-thaw cycles.
Preservative	No Preservative
Reconstitution Instructions	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Purity	>90%, by SDS-PAGE
Buffer	Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Product Description	
Description	<p>A bioactive partial recombinant protein with a His tag at the C-terminus and corresponding to the amino acids sequence of (Val16-Arg685) of the SARS-CoV-2 Spike S1</p> <p>Source: HEK293</p> <p>VNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFSNVTWFHAIH VSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSTQSLIVNNAT NVVIKVFCEQFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFL MDLEGKQGNFKNLREFVFNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPI GINITRFQTLALHRSYLTGDSSTGWTAGAAAYVGYLQPRFTLLKYNENGTIT DAVDCALDPLSEKCTLSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEV FNATRFASVYAWNRKRISNCVADYSVLYNSASFSTFKCYGVSPTKLNLCFTN VYADSFVIRGDEVQRQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVG NINYLYRLFRKSNLKPFERDISTEIQAGSTPCNGVEGFNCYFPLQSYGFQPTN GVGYQPYRVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNFNGLTGTGVLTE SNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFSGVSVITPGTNTSNQVA VLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSYEC DIPIGAGICASYQTQTNSPRRAR (Accession #YP_009724390.1)</p>
Gene ID	43740568
Gene Symbol	S
Details of Functionality	1. Measured by its binding ability in a functional ELISA. Immobilized Recombinant SARS-CoV-2 Spike S1 at 2 ug/mL (100 uL/well) can bind Recombinant Human ACE2 with a linear range of 0.5-8.7 ng/mL. 2. Immobilized Human ACE2 on COOH Chip can bind SARS-COV-2 Spike S1 with an affinity constant of 11.4 nM as determined in a SPR assay.
Endotoxin Note	< 1.0 EU/ug of the protein by LAL method.
Product Application Details	
Applications	ELISA, SDS-Page, HPLC, Surface Plasmon Resonance
Recommended Dilutions	ELISA, SDS-Page, Surface Plasmon Resonance, HPLC

## Images

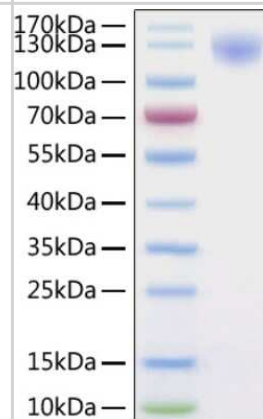
ELISA: Recombinant SARS-CoV-2 Spike S1 His (C-Term) Protein [NBP2-90985] - Immobilized Recombinant SARS-COV-2 Spike S1 at 2ug/mL (100 uL/well) can bind Recombinant Human ACE2 with a linear range of 0.5-8.7 ng/mL.



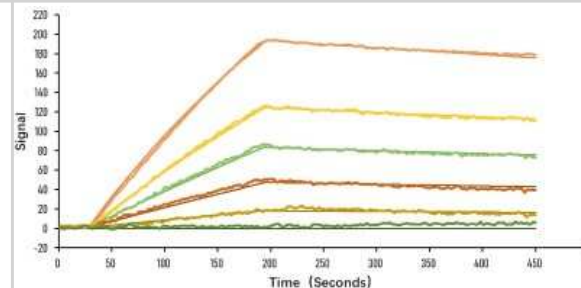
HPLC: Recombinant SARS-CoV-2 Spike S1 His (C-Term) Protein [NBP2-90985] - The purity of SARS-COV-2 Spike S1 Protein with His tag (Cat.NBP2-90985) was greater than 95% as determined by SEC-HPLC.



SDS-Page: Recombinant SARS-CoV-2 Spike S1 His (C-Term) Protein [NBP2-90985] - Recombinant SARS-COV-2 Spike S1 Protein with His tag was determined by SDS-PAGE with Coomassie Blue, showing a band at 110-130 kDa.



Surface Plasmon Resonance: Recombinant SARS-CoV-2 Spike S1 His (C-Term) Protein [NBP2-90985] - Immobilized Human ACE2 on COOH Chip, can bind SARS-COV-2 Spike S1 with an affinity constant of 11.4 nM as determined in a SPR assay.



## Publications

Gaynor KU, Vaysburd M, Harman MAJ et al. Multivalent bicyclic peptides are an effective antiviral modality that can potently inhibit SARS-CoV-2 Nature communications 2023-06-16 [PMID: 37328472] (SPR)

Atalis A, Keenum MC, Pandey B et al. Nanoparticle-delivered TLR4 and RIG-I agonists enhance immune response to SARS-CoV-2 subunit vaccine Journal of controlled release : official journal of the Controlled Release Society 2022-05-20 [PMID: 35577151] (ELISA)





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-90985**

---

NBP2-90982	Recombinant SARS-CoV-2 Spike S1 (RBD) His (C-Term) Protein
NBP3-07065	SARS-CoV-2 Spike S1 Antibody (SP185) - Azide and BSA Free

---

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP2-90985](http://www.novusbio.com/reviews/submit/NBP2-90985)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

