

# Product Datasheet

## Recombinant SARS-CoV-2 Spike RBD (N501Y) His Avi-tag Protein NBP3-07930

Unit Size: 0.05 mg

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

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



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

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP3-07930](http://www.novusbio.com/NBP3-07930)

Updated 6/14/2023 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/NBP3-07930](http://www.novusbio.com/reviews/destination/NBP3-07930)



**NBP3-07930****Recombinant SARS-CoV-2 Spike RBD (N501Y) His Avi-tag Protein**

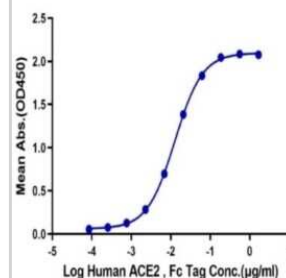
| <b>Product Information</b>         |                                                                                                                                                                                                                                      |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit Size</b>                   | 0.05 mg                                                                                                                                                                                                                              |
| <b>Concentration</b>               | Please see the vial label for concentration. If unlisted please contact technical services.                                                                                                                                          |
| <b>Storage</b>                     | Store at -20 to -70C. Avoid freeze-thaw cycles.                                                                                                                                                                                      |
| <b>Preservative</b>                | 5% Trehalose                                                                                                                                                                                                                         |
| <b>Purity</b>                      | >95%, by PAGE                                                                                                                                                                                                                        |
| <b>Buffer</b>                      | 20 mM PBS                                                                                                                                                                                                                            |
| <b>Product Description</b>         |                                                                                                                                                                                                                                      |
| <b>Description</b>                 | <p>A recombinant protein with His, Avi-tags corresponding to amino acids Arg319 - Phe541 (N501Y) of SARS-CoV-2 Spike RBD Protein</p> <p><b>Source:</b> HEK293</p> <p>(Accession #: QHD43416.1)</p> <p>Store in working aliquots.</p> |
| <b>Species</b>                     | SARS-CoV-2                                                                                                                                                                                                                           |
| <b>Endotoxin Note</b>              | Endotoxin level is less than 1EU per ug by the LAL method.                                                                                                                                                                           |
| <b>Product Application Details</b> |                                                                                                                                                                                                                                      |
| <b>Applications</b>                | Western Blot, ELISA, SDS-Page, HPLC, Surface Plasmon Resonance                                                                                                                                                                       |
| <b>Recommended Dilutions</b>       | Western Blot, ELISA, SDS-Page, Surface Plasmon Resonance, HPLC                                                                                                                                                                       |



## Images

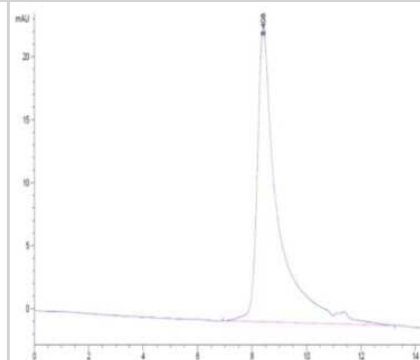
ELISA: Recombinant SARS-CoV-2 Spike RBD (N501Y) Protein [NBP3-07930] - Immobilized Recombinant SARS-CoV-2 Spike RBD (N501Y) Protein, His Tag at 0.5 ug/ml (100ug/Well) on the plate. Dose response curve for Human ACE2, Fc Tag with the EC50 of 12.7 ng/ml determined by ELISA.

SARS-CoV-2 S protein RBD (N501Y), His Tag ELISA  
0.05µg SARS-CoV-2 protein RBD (N501Y), His Tag Per Well



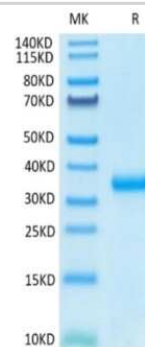
Immobilized SARS-CoV S protein RBD (N501Y),His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human ACE2 ,Fc Tag with the EC50 of 12.7ng/ml determined by ELISA.

HPLC: Recombinant SARS-CoV-2 Spike RBD (N501Y) Protein [NBP3-07930] - The purity of Recombinant SARS-CoV-2 Spike RBD (N501Y) Protein is greater than 95% as determined by SEC-HPLC.



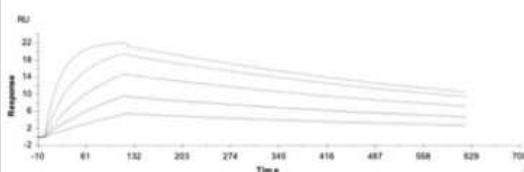
The purity of SARS-COV-2 S protein RBD (N501Y) is greater than 95% as determined by SEC-HPLC

SDS-Page: Recombinant SARS-CoV-2 Spike RBD (N501Y) Protein [NBP3-07930] - Recombinant SARS-CoV-2 Spike RBD (N501Y) Protein on Tris-Bis PAGE under reduced condition. The purity is great than 95%.



SARS-COV-2 S protein RBD (N501Y) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Surface Plasmon Resonance: Recombinant SARS-CoV-2 Spike RBD (N501Y) Protein [NBP3-07930] - Human ACE2 captured in protein A chip, can bind Recombinant SARS-CoV-2 Spike RBD (N501Y) Protein, His Tag with an affinity constant of 1.74nM as determined in SPR assay.



Human ACE2 captured on protein A chip, can bind SARS-CoV S protein RBD (N501Y),His Tag with an affinity constant of 1.74nM as determined in SPR assay (Biacore T200).



### **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](http://www.novusbio.com)  
Technical Support: [nb-technical@bio-techne.com](mailto:nb-technical@bio-techne.com)  
Orders: [nb-customerservice@bio-techne.com](mailto:nb-customerservice@bio-techne.com)  
General: [novus@novusbio.com](mailto:novus@novusbio.com)

### **Products Related to NBP3-07930**

---

|              |                                                           |
|--------------|-----------------------------------------------------------|
| NBP3-07948   | Recombinant SARS-CoV Spike RBD Biotin His Avi-tag Protein |
| 10500-CV-100 | Spike RBD [Unconjugated]                                  |

---

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months 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/NBP3-07930](http://www.novusbio.com/reviews/submit/NBP3-07930)

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

