

## Product Datasheet

# Recombinant Human Novel Coronavirus Nucleoprotein(N)(S202N) (Active) (orb1096700)

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog Number       | orb1096700                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Category             | Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description          | Recombinant Human Novel Coronavirus Nucleoprotein(N)(S202N) (Active)                                                                                                                                                                                                                                                                                                                                                                                   |
| Tag                  | N-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Form/Appearance      | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Buffer/Preservatives | Lyophilized from 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0                                                                                                                                                                                                                                                                                                                                                                                      |
| Purity               | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                            |
| Protein Sequence     | MSDNGPQNQRNAPRITFGGPSDSTGSNQNGERSGARSKQRRPQGLPNNTASWFTALTQH<br>GKEDLKFPRGQGVPIINTNSSPDDQIGYYRRATRRIRGGDGKMKDLSRWYFYLLGTGPEAG<br>LPYGANKDGIWVATEGALNTPKDHIGTRNPANNAIVLQLPQGTTLPKGFYAEGSRGGSQ<br>ASSRSSRSRNSSRNSTPGSNRGTSARMAGNGGDAALALLLDRLNQLESKMSGKGQQ<br>QQGQTVTKKSAAEASKKPRQKRTATKAYNVTQAFGRRGPEQTQGNFGDQELIRQGTDYK<br>HWPQIAQFAPSASAFFGMSRIGMEVTPSGTWLTYTGAIKLDDKDPNFKDQVILLNKHIDAYK<br>TFPPTPEKKDKKKKADETQALPQRQKKQQTVTLLPAADLDDFSKQLQQSMSSADSTQA |
| Protein Length       | Full Length                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| UniProt ID           | <b>P0DTC9</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MW                   | 49.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Application notes    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.                                            |
| Source               | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

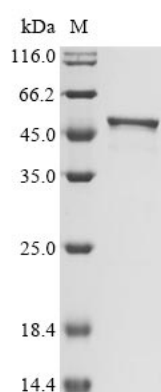
### Biorbyt Ltd.

7 Signet Court, Swann's Road,  
Cambridge, CB5 8LA, United Kingdom  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

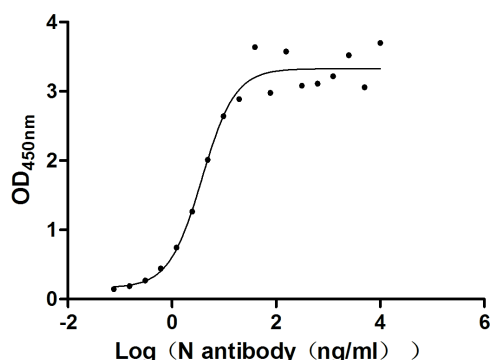
### Biorbyt LLC.

68 TW Alexander Drive,  
Durham, NC, 27713, United States  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

|                          |                                                                                                                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological Origin</b> | Severe acute respiratory syndrome coronavirus 2 (2019-nCoV) (SARS-CoV-2)                                                                                                                                                                                                        |
| <b>Expression Region</b> | 1-419aa(S202N)                                                                                                                                                                                                                                                                  |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| <b>Note</b>              | For research use only                                                                                                                                                                                                                                                           |



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



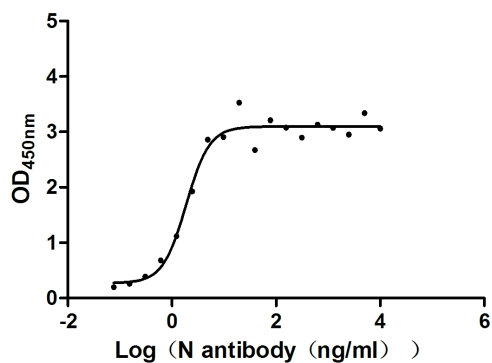
Measured by its binding ability in a functional ELISA. Immobilized N at 2 µg/ml can bind N Mouse Monoclonal Antibody, the EC50 of N Mouse Monoclonal Antibody is 2.655 - 5.389 ng/ml.

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7 Signet Court, Swann's Road,  
Cambridge, CB5 8LA, United Kingdom  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+44 \(0\) 1223 859-353](tel:+44201223859353) | Fax: [+1 \(415\) 651-8558](tel:+14156518558)

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Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
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Measured by its binding ability in a functional ELISA.

Immobilized N at 2 µg/ml can bind N Recombinant Antibody, the EC50 of N Recombinant Antibody is 1.466 -2.382 ng/ml.

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Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

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Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)