

# Recombinant SARS-CoV-2 (Beta B1.351 Variant) Trimeric Spike Protein (Ser13-Pro1210), His Tagged

**Cat. No.** S-347S    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant SARS-CoV-2 (Beta B1.351 Variant) Trimeric Spike Protein (Ser13-Pro1210) with C-His tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | SARS-CoV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Ser13-Pro1210                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Coronaviruses (Beta B1.351 Variant) are enveloped positive-sense RNA viruses. Spike protein on the viral envelope and the cognate receptor on the surface of host cells that are essential for entry into host cells upon receptor binding and membrane fusion. Spike proteins are target for neutralization antibody, and mediate membrane fusion and virus entry. Trimeric spike protein is about 180kDa, and contains two subunits, S1 and S2, mediating attachment and membrane fusion. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 133.67 kDa.<br>The protein migrates above 180 kDa under reducing condition (SDS-PAGE analysis).<br>The protein migrates as 75-100 kDa under reducing condition (SDS-PAGE analysis).                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | >95% as determined by SDS-PAGE analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | The product is shipped with polar packs. Upon receipt, store it immediately at -80 centigrade or lower for long term storage.                  |
| <b>Storage Buffer</b> | Phosphate buffered saline, pH 7.4.                                                                                                             |
| <b>Shipping</b>       | This product is stable after storage at:<br>-80 centigrade for long-term storage under sterile conditions.<br>Avoid repeated free-thaw cycles. |

## GENE INFORMATION

|                        |                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">S surface glycoprotein [ Severe acute respiratory syndrome coronavirus 2 ]</a> |
| <b>Official Symbol</b> | <a href="#">S</a>                                                                          |
| <b>Synonyms</b>        | S; surface glycoprotein; spike glycoprotein; structural protein; spike protein             |
| <b>Gene ID</b>         | <a href="#">43740568</a>                                                                   |
| <b>Protein Refseq</b>  | <a href="#">YP_009724390</a>                                                               |
| <b>UniProt ID</b>      | <a href="#">P0DTC2</a>                                                                     |

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**SDS-PAGE analysis  
of SARS-CoV-2  
Trimeric Spike  
Protein (Beta B1.351  
Variant).**

