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## Product Data Sheet

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Product Name: CoV-2-S1 (319-541), Biotin  
 Cat. No.: GP26396  
 Batch No.: 1

### Product Data

Purity >98% Source HEK293Cells.

Physical Appearance solid Shipping Condition atRoomtemp.

Solubility It is recommended to reconstitute the lyophilized CoV-2 S1 protein in sterile 18M-cm H<sub>2</sub>O at a concentration of 0.2mg/ml and not less than 0.1mg/ml, which can then be further diluted to other aqueous solutions.

Formulation CoV-2 S1RBD protein is lyophilized from 1x PBS pH-7.4 + 10% trehalose.

### Introduction

A human infecting coronavirus (viral pneumonia) called 2019 novel coronavirus, 2019-nCoV was found in the fish market at the city of Wuhan, Hubei province of China on December 2019. The 2019-nCoV shares an 87% identity to the 2 bat-derived severe acute respiratory syndrome 2018 SARS-CoV-2 located in Zhoushan of eastern China. 2019-nCoV has an analogous receptor-BD-structure to that of 2018 SARS-CoV, even though there is a.a. diversity so thus the 2019-nCoV might bind to ACE2 receptor protein (angiotensin-converting enzyme 2) in humans. While bats are possibly the host of 2019-nCoV, researchers suspect that animal from the ocean sold at the seafood market was an intermediate host. RSCU analysis proposes that the 2019-nCoV is a recombinant within the viral spike glycoprotein between the bat coronavirus and an unknown coronavirus.

### Stability

Lyophilized Cov-2 S1 Glycoprotein RBD although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CoV2 Spike protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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The HEK293 derived Biotinylated recombinant protein contains the Coronavirus 2019 Spike Glycoprotein S1 Receptor Binding Domain [ RBD ], Wuhan-Hu-1 strain, amino acids 319-541 fused to His tag & AVI tag at C-terminal and having a molecular mass of 28.7kDa.

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