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## Product Data Sheet

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Product Name: CoV-2-S1 (319-541)

Cat. No.: GP26393

Batch No.: 1

### Product Data

Purity >98%

Source HEK293Cells.

Physical  
Appearance solid

Shipping  
Condition withIcePacks

Formulation CoV-S1 RBDprotein is 1mg/ml contains 20mM sodium phosphate (NaPP), 300mM NaCl, pH7.2

### 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.

### Biological Activity

SARS CoV-2 Spike Glycoprotein S1 RBD was tested for its biological functionality by its binding to recombinant ACE2 receptor protein confirmed by structural complementation reporter assay (NanoBiT®).

### Stability

CoV-2 S1RBD Protein is shipped on ice packs. Upon arrival, Store at -20°C.

### Background

The HEK293 derived recombinant protein contains the Coronavirus 2019 Spike

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Glycoprotein S1 Receptor Binding Domain [ RBD ], Wuhan-Hu-1 strain, amino acids 319-541 fused to His tag at C-terminal.

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