
Product Data Sheet

Product Name: CoV-2 S1 (319-537)

Cat. No.: GP26397

Batch No.: 1

Product Data

Purity >98% Source HEK293 Cells.

Physical Appearance solid Shipping Condition atRoomtemp.

Solubility It is recommended to reconstitute the lyophilized CoV-2 S1 protein in sterile 18M-cm H₂O at a conc. of 0.5mg/ml and not less than 0.1mg/ml, which can then be further diluted to other aqueous solutionsFormulation Lyophilized from a 0.2 μ m filtered concentrated solution in PBS pH-7.4 and 10% treaholse.**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 RBD protein although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CoV2RBD 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.

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

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Background

The HEK293 derived recombinant protein contains the Coronavirus 2019 Spike Glycoprotein S1 Receptor Binding Domain [RBD], Wuhan-Hu-1 strain, amino acids 319-537, having a Mw of 26.5kDa. Cov-2 RBD is fused to His tag at C-terminal

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