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## Product Data Sheet

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Product Name: CoV-2 Spike (318-542)

Cat. No.: GP26410

Batch No.: 1

**Product Data**

Purity &gt;98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition withIcePacks

Amino Acid Sequence  
 HMRVQPTESI VRFPNITNLC PFGEVFNATR FASVYAWNRK RISNCVADYS  
 VLYNSASFS TFKCYGVSPT KLNDLCFTNV YADSFVIRGD EVRQIAPGQT  
 GKIADYNYKL PDDFTGCVI AWNSNNLDSKV GGNYNLYRL FRKSNLKPFE  
 RDISTEYQA GSTPCNGVEG FNCYFPLQSY GFQPTNGVGY QPYRVVLSF  
 ELLHAPATVC GPKKSTNLVK NKCVNFNLE

Formulation CoV-2 Spike protein solution contains PBS and 25mM K<sub>2</sub>CO<sub>3</sub>.**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**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

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

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

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Recombinant Coronavirus 2019 Spike Receptor Binding Domain (318-542 aa) having a Mw of 25.7kDa was purified from E. coli. The CoV-2 Spike is fused to a 6xHis tag at its C terminal and purified by proprietary chromatographic technique.

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