
Product Data Sheet

Product Name: CoV-2 S1 (319-541), Sf9
 Cat. No.: GP26394
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Severe acute respiratory syndrome coronavirus 2, COVID-19, COVID-19 virus, COVID19, HCoV-19, Human coronavirus 2019, SARS-2, SARS-CoV2, SARS2, Wuhan coronavirus, Wuhan seafood market pneumonia virus, SARS-CoV-2 SP RBD, 2019-nCoV SP RBD, 2019-nCoV, 2019-nCoV; Spike RBD Protein.		
Amino Acid Sequence	ADPRVQPTES IVRFPNITNL CPFGEVFNAT RFASVYAWNR KRISNCVADY SVLYNSASFSTFKCYGVSPSTKLNDLCFTNV YADSFVIRGD EVRQIAPGQT GKIADYNYKL PDDFTGCVIA WNSNNLDSKV GGNYNLYRL FRKSNLKPFE RDISTEYQA GSTPCNGVEG FNCYFPLQSY GFQPTNGVGY QPYRVVLSF ELLHAPATVC GPKKSTNLVK NKCVNFHHHH HH		
Formulation	CoV-2 S1 (319-541) solution (0.25mg/ml) contains Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.		

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 probably 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.

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

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Biological Activity

Measured by its binding ability in a functional ELISA with Human ACE-2 (CAT# enz-1159).

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

Recombinant Coronavirus 2019-nCoV Spike Glycoprotein-S1 Receptor Binding Domain is a single, glycosylated polypeptide chain containing a total of 232 amino acids (319-541) and having a calculated Mw of 26.2 kDa. CoV-2 S1 (319-541) is fused to a 6 amino acid His-tag at C-terminus, and is purified by proprietary chromatographic techniques.

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