
Product Data Sheet

Product Name: CoV-2 S1 (16-685)
 Cat. No.: GP26399
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293 Cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Spike glycoprotein, S glycoprotein, E2, Peplomer protein, covid19, COVID-19, COVID-19 virus, HCoV-19, Human coronavirus 2019, SARS2, Spike protein S1, Severe acute respiratory syndrome coronavirus 2, 2019-nCoV, S, Peplomer protein		
Amino Acid Sequence	<p>DGSMVNLTTR TQLPPAYTNS FTRGVYYPDK VFRSSVLHST QDLFLPFFSN VTWFHAIHVS GTNGTKRFDN PVLPFNDGVY FASTEKSNII RGWIFGTTLD SKTQSLIVN NATNVVIKVC EFQFCNDPFL GVYYHKNNKS WMESEFRVYS SANNCTFEYV SQPFLMDLEG KQGNFKNLRE FVFKNIDGYF KIYSKHTPIN LVRDLPQGFS ALEPLVDLPI GINITRFQTL LALHRSYLTPGDSSSGWTAG AAAYYVGYLQ PRTFLLKYNE NGTITDAVDC ALDPLSETKC TLKSFTVEKG IYQTSNFRVQ PTESIVRFPN ITNLCPFGEV FNATRFASVY AWRNRKRISNC VADYSVLYNS ASFSTFKCYG VSPTKLNDLC FTNVYADSFV IRGDEVRQIA PGQTGKIADY NYKLPDDFTG CVAIWNSNLL DSKVGGNYNY LYRLFRKSNL KPFERDISTE IYQAGSTPCN GVEGFNCYFPLQSYGFQPTN GVGYPYRVV VLSFELLHAP ATVCGPKKST NLVKNKCVNF NFNGLTGTGV LTESNKKFLP FQQFGRDIAD TDAVRDPQT LEILDITPCS FGGVSVITPG TNTSNQVAVL YQDVNCTEVP VAIHADQLTP TWRVYSTGSN VFQTRAGCLI GAEHVNNSEY CDIPIGAGIC ASYQTQTNSP RRARHHHHHH.</p>		
Formulation	The CoV-2 S1 (16-685) solution (0.25mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 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

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

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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

Measured by its binding ability in a functional ELISA with Human ACE-2 (enz-1125).

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

The recombinant Coronavirus 2019 CoV-2 Spike Glycoprotein S1, Wuhan-Hu-1 strain containing a total of 680 amino acids (16-685) and having a calculated Mw of 76.2 kDa. CoV-2 S1 (16-685) is fused to a 6 amino acid His-tag at C-terminus, and is purified by proprietary chromatographic techniques.

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