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CoV-2 S1 (319-541), Sf9

Coronavirus 2019-nCoV Spike Glycoprotein-S1 Receptor Binding Domain Recombinant,SF9

VAG0081

Product Overview

Name	CoV-2 S1 (319-541), Sf9

Description

Coronavirus 2019-nCoV Spike Glycoprotein-S1 Receptor Binding Domain Recombinant,SF9

Accession (Primary)	ATGP3962

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.

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.

Source

Sf9, Baculovirus cells.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

CoV-2 S1 (319-541) solution (0.25mg/ml) contains Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.

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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

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Amino acid sequence

ADP RVQPTES IVRFPNITNL CPFGEVFNAT RFASVYAWNR KRISNCVADY SVLYNSASFS TFKCYGVSPT KLNDLCFTNV YADSFVIRGD EVRQIAPGQT GKIADYNYKL PDDFTGCVIA WNSNNLDSKV GGNYNYLYRL FRKSNLKPFE RDISTEIYQA GSTPCNGVEG FNCYFPLQSY GFQPTNGVGY QPYRVVVLSF ELLHAPATVC GPKKSTNLVK NKCVNF HHHH HH

Biological Activity

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

Precautions

CoV-2 S1 (319-541), Sf9 is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (ATGP3962)