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CoV-2 S1 (319-529)

Coronavirus 2019-nCoV Spike Glycoprotein-S1 Receptor Binding Domain (319-529 a.a.) Recombinant
VAG0079

Product Overview

Name	CoV-2 S1 (319-529)

Description

Coronavirus 2019-nCoV Spike Glycoprotein-S1 Receptor Binding Domain (319-529 a.a.) Recombinant

Accession (Primary)	P0DTC2

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

HEK293 Cells.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

CoV-2 S1 (319-529) 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

DGSM RVQPTE SIVRFPNITN LCPFGEVFNA TRFASVYAWN RKRISNCVAD YSVLYNSASF STFKCYGVSP TKLNDLCFTN VYADSFVIRG DEVRQIAPGQ TGKIADYNYK LPDDFTGCVI AWNSNNLDSK VGGNYNYLYR LFRKSNLKPF ERDISTEIYQ AGSTPCNGVE GFNCYFPLQS YGFQPTNGVG YQPYRVVVLS FELLHAPATV CGPKK HHHHH H

Biological Activity

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

Precautions

CoV-2 S1 (319-529) is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P0DTC2)