

PRODUCT DATASHEET

SARS-CoV-2 Spike-E-M Mosaic Recombinant Protein

Product Data Sheet / Certificate of Analysis

Cat. No.:	RP9720140050	RP9720140250	RP9720141000
	0.05 mg	0.25 mg	1 mg

Introduction:

Coronaviruses (CoVs), within the order Nidovirales, are enveloped, single-strand, positive-sense RNA viruses with a large genome of approximately 30 kbp in length. A human infecting coronavirus (viral pneumonia) initially known as 2019 novel coronavirus (2019-nCoV) was found in the fish market at the city of Wuhan, Hubei province of China in December 2019. The virus is now named severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2).

SARS-CoV-2 shares an 87% identity to the 2 bat-derived severe acute respiratory syndrome 2018 SARS-CoV-2 located in Zhoushan of eastern China. SARS-CoV-2 has an analogous receptor-BD-structure to that of 2018 SARS-CoV, even though there is a.a. diversity so thus the SARS-CoV-2 might bind to ACE2 receptor protein (angiotensin-converting enzyme 2) in humans.

While bats are possibly the host of SARS-CoV-2, researchers suspect that animal from the ocean sold at the seafood market was an intermediate host. RSCU analysis proposes that the SARS-CoV-2 is a recombinant within the viral spike glycoprotein between the bat coronavirus and an unknown coronavirus.

Coronaviruses contain at least four structural proteins: Spike (S) protein, envelope (E) protein, membrane (M) protein, and nucleocapsid (N) protein.

Description:

The E.Coli derived recombinant protein contains the SARS-CoV-2 spike (S), membrane (M), and envelope (E) immunodominant regions, fused to His tag at C-terminal.

Source:

Escherichia Coli

Physical Appearance:

Sterile Filtered clear solution.

Formulation:

SARS-CoV-2 Spike Envelope-Mosaic Protein 1mg/ml solution is supplied in 1x PBS.

Purity:

Greater than 90.0% as determined by Analysis by SDS-PAGE.

Stability/Storage:

Shipped on ice packs. Store at -20°C upon arrival.

Usage:

BioVendor's products are furnished for LABORATORY RESEARCH USE ONLY. The product

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may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.