

## SARS-CoV-2 Membrane and Envelope Protein (His-Tag)

Synonyms: Novel Coronavirus Membrane Envelope, recombinant

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order #	Lot #	Expiry Date
50 µg	2021.V20.050		
250 µg	2021.V20.250		
1 mg	2021.V20.199		

Please enquire for bulk quantities and other vial sizes

### Description

Recombinant Coronavirus Full length Membrane and Envelope Protein was derived from *E. Coli* with a molecular weight of 34,3 kDa and fused to a His-Tag at the C-terminus. It is derived from the Wuhan-Hu-1 strain. SARS-CoV-2, formerly termed 2019-nCoV, causes the pandemic COVID-19 disease, a viral pneumonia. The production in HEK293 cells ensures the most authentic post translational modifications.

The SARS-CoV-2 shares an 87% identity to two bat-derived severe acute respiratory syndrome 2018 (SARS-like) coronaviruses found in Zhoushan of eastern China. It is more distant from SARS-CoV (79%) identity and MERS-CoV (50%) identity. SARS-CoV-2 has an analogous receptor-binding domain-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 SARS-CoV, 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.

- **Source** *E. Coli*
- **Purity** ≥ 90% (SDS-PAGE)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Stabilizer** None
- **Buffer** 1 x PBS\*
- **Physical state** Sterile filtered, liquid

### Stability

The protein is stable for at least 2 weeks at 0°C - 4°C, and therefore can be shipped on ice packs. Upon arrival it should be stored at -20 °C. **Please avoid repeated freeze-thaw cycles.**

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.