

## 32-13824: CoV-2 Spike (318-542)

### Description

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Biological Activity: null

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 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.

Recombinant Coronavirus 2019 Spike Receptor Binding Domain (318-542 aa) having a Mw of 25.7kDa was purified from E. coli. The CoV-2 Spike is fused to a 6xHis tag at its C terminal and purified by proprietary chromatographic technique.

### Product Info

**Amount :** 0.5 mg / 100 µg

**Purification :** Protein is >95% pure as determined by 10% PAGE (coomassie staining).

**Storage condition :** 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.

**Amino Acid :** HMRVQPTESI VRFPNITNLC PFGEVFNATR FASVYAWNRK RISNCVADYS VLYNSASFS TFKCYGVSPT  
KLNDLCFTNV YADSFVIRGD EVRQIAPGQT GKIADYNYKL PDDFTGCVI AWNSNNLDSKV GGNYNLYRL  
FRKSNLKPFE RDISTEIQQA GSTPCNGVEG FNCYFPLQSY GFQPTNGVGY QPYRVVLSF ELLHAPATVC  
GPKKSTNLVK NKCVMFNLE